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College
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CIRCULAR No. 1. ELEVENTH MONTH, 1883.

BRYN MAWR COLLEGE.

Bryn Mawr College.

Bryn Mawr College was founded by Dr. Joseph W. Taylor, of Burlington, New Jersey. He purchased the site, a high and healthy one, commanding fine views of the surrounding country, and situated near Bryn Mawr Station, on the Pennsylvania Railroad, ten miles west of Philadelphia.

Dr. Taylor began the erection of buildings for the College during his life, and by his will placed the control of the Institution and of the funds bequeathed for its establishment and support in the hands of thirteen trustees, whom he named.

Its Purpose.—The purpose of the Institution, as expressed by its founder, is that it shall be one where women, whose mental endowments and previous training shall have fitted them for it, can "have all the advantages of a *college* education which are so freely offered to young men." Dr. Taylor further enjoined "that care be taken to educate young women to become teachers of a high order."

Bryn Mawr College will aim to give a thorough and generous intellectual culture; to develop womanly character; to fit its students to enjoy life more fully, and to fulfill better any service to which they may be called—whether in the home, in social or religious life, or in any of those varied occupations in which women of education now engage. It must require thorough preparation in the studies necessary for admission. It cannot give the

professional teaching of a university, but it will endeavor to supply the mental discipline and solid learning which are the best preparation for any future pursuits.

Bryn Mawr will be a Christian College. In accordance with the expressed wish of the founder, instruction in the Bible will form a part of the course of study, and the College will endeavor to foster an earnest and practical Christian life. To this end, besides Biblical teaching, opportunities for family and public worship will be provided.

The trustees are, by the terms of the foundation, to be members of the Society of Friends, whose views of Christian truth and practice will determine the character of the Institution; but students not members of the Society of Friends, who come up to the requirements for entrance, will be admitted.

Buildings.—Referring to the lands provided for the College, Dr. Taylor directed "the erection thereon of substantial, sightly, and suitable buildings, of the most approved construction, for the comfort, advanced education, and care of young women or girls." The buildings for the College are in process of construction, and it is the expectation of the trustees that they will be ready for the reception of students in the autumn of 1885.

Taylor Hall, a fine structure of Port Deposit stone, is one hundred and thirty feet long and three stories high. Besides an assembly-room, it contains rooms for recitations and will supply laboratories and a library until other buildings for these purposes can be erected. A chemical laboratory, well supplied with every necessary convenience, with a professor's room, balance-room, and lecture-room attached, is already completed, and rooms for physics, botany, etc., will be arranged.

MERION HALL is a Home, one hundred and sixty feet long, three stories in height, and has accommodations for fifty students. It is built of Fairmount stone, in a pleasing style of architecture adapted to its purpose. Each study-room has a bed-room adjoining on either side, so that two students shall occupy the same study-room but each will have her own sleeping-apartment. There are also a few rooms of larger size for the accommodation of students who may prefer to have apartments wholly to themselves. The buildings will be warmed by air raised to a moderate temperature by passing over steam-heated coils of pipe and reaching the rooms under a very slight pressure from a fan. They will be ventilated by flues connecting near the top of the house with a main duct which empties into the great ventilating shaft heated by the fires from the boiler-house, thus making a constant draft of vitiated air from the apartments. They will be lighted by gas, but students' lamps will be used for the study-room tables, thus securing the safest and best light for the eye.

Great care has been taken with the plumbing and drainage, so as to promote the health and comfort of the inmates. The students will take their meals in the hall they occupy, in a cheerful and attractive dining-room.

The Gymnasium will be one of the most commodious yet provided by any college for women. It will be eighty feet long and sixty feet wide, and besides the large hall for gymnastic exercises, will contain dressing-room, rooms for Directress, etc. It will be properly warmed, provided with baths and every needed apparatus, and will afford space for walking when very stormy weather may deter from out-door exercise.

The Courses of Study will be so arranged as usually

to occupy four years, but this period may be modified to suit special cases.

There will be a series of required studies, which all students must take, and another of electives, some of which must also be taken ; but the latter will be formed into groups to direct the student in her choice.

Each of these courses will combine such a proportion of languages, literature, and science as to give a liberal education and insure advanced study in several branches, with the scholarship and accurate acquirements of a good collegiate training.

A student who pursues any one of the regular courses, upon passing examinations successfully in its several branches as they come in order, may receive a certificate for work actually done, and upon the completion of the course will be entitled to a degree.

Requirements for Admission.—As the College course will demand years of mental effort, it is of the first importance that students should have good health. Hence it is desired that parents and teachers see that pupils begin early to prepare for College, omit studies not required for entrance examinations, and take time for careful preparation without overtaxing their strength.

CANDIDATES must be at least sixteen years of age, and give satisfactory testimonials of personal character. They will be examined in the following branches :

English—Spelling, Grammar, and Composition. Applicants will be expected to be able to write a simple essay properly, and to correct the more common faults of English composition. They will find it an advantage to have studied some elementary book on Rhetoric, as A. S. Hill's, and Whitney's Grammar.

Modern Geography; Guyot's Physical Geography;

the Outlines of the History of the United States, as Barnes' or Leeds'; the Elements of Greek and Roman History.

Mathematics—Arithmetic, including the metric system of weights and measures; Algebra through quadratic equations of one unknown quantity; the first three books of Geometry. The Algebra used should be Well's, Brown's, or one equally complete. The Geometry may be Wentworth's, Chauvenet's, or Sharpless'.

Latin—Grammar, including prosody. Exercises in Prose Composition, as Jones' or Harkness'; Cæsar, Gallic War, four books; first four books of Virgil's Æneid or equivalents.

Greek—Grammar, White's Greek Lessons; four books of Xenophon's Anabasis; one book of Homer's Iliad.

Where Greek is omitted, candidates will be expected to be well prepared in *German* or *French*.

If in *French* alone, the student will be examined in Keetel's Analytical Grammar and Reader, or equivalents, and must be able to read easy prose at sight and to convert such English prose into French.

If in *German* alone, Grammar and an amount of prose and poetry equal to that contained in Whitney's German Reader.

Care must be taken with the pronunciation of French and German, and accuracy in what has been studied will be considered more important than the amount read.

Candidates who omit Greek will also be examined in one of the following, viz.:

a. The Elements of Physics.

b. The Elements of Chemistry (non-metallic elements and their more simple compounds).

c. The Elements of Physiology.

Practice in Free-hand Drawing will be considered a

valuable part of preparation, but will be required only when candidates intend to give prominence to this study.

Certificates of Preparation.—Students will be expected to present themselves for entrance examinations unless the distance of their homes from the College shall prevent it.

Certificates will be accepted only from teachers or schools whose methods and courses of study are known to be satisfactory. A certificate must state the amount of work done in each study, and the time which has been given to it. Each certificate will be subject to the final approval of the Faculty.

Teachers who desire to perfect themselves in one or more branches of learning may be admitted if they give satisfactory evidences of scholarship and good character. They must, however, show exemplary diligence and devotion to study.

Special Students.—To others than teachers opportunities for special study will be offered so far as it can be done without disadvantage to the regular classes. All such students must meet the above requirements for admission.

Required Studies.—The following must be taken during a part or the whole of the course in order to graduation, viz.: 1. English; Composition and Rhetoric, Literature and History of the Language. 2. Latin. 3. French or German. 4. Mathematics. 5. Chemistry. 6. Physics. 7. Physiology and Hygiene. 8. History. 9. Ethics, including Biblical study. 10. Psychology and the Elements of Logic. 11. Drawing. 12. The Elements of Business Accounts. 13. Physical Culture.

To these will be added the following electives: 1. Greek. 2. Latin. 3. Early English. 4. Mathematics. 5. Chemistry. 6. Physics. 7. History, ancient and modern. 8. Political and Social Science. 9. Botany. 10. Geology. 11. Zoology. 12. Art. It will be observed that several of these electives are also among the required studies. This means that Latin, for example, must be studied by all for a specified time, after which it may be dropped, or, if the student so chooses, may be continued as an elective throughout the whole, or a part of the remainder of the course. More advanced Chemistry or Mathematics, etc., may be taken in the same way.

In order to guide the student in her choice, and so limit it as to promote thoroughness, these electives, as has been before stated, will be arranged in definite groups, some one of which must be selected by the student and to which she must adhere.

Physical Culture will be regarded as specially important.

It is intended that the Gymnasium shall be in charge of a skilled instructress, so that its exercises shall be adapted in time and amount to the personal needs of each student, and that all danger of hurtful excess may be avoided.

The grounds will offer facilities for out-door exercise, such as lawn-tennis or other games which unite exertion with pleasure. Extended walks, kept dry and fit for use as far as may be, will be provided.

It is the purpose of the trustees that the health of the students shall be under the supervision of a woman of acknowledged medical skill.

Non-resident Students.—Students living at their homes in the immediate vicinity of the College may be admitted as day pupils at the discretion of the Faculty; but such students will be retained only when they seriously apply themselves to a life of study, and do not detract from the discipline or interfere with the primary purpose of the Institution as a place of learning.

Dress.—Students will be expectéd to dress simply, avoiding useless ornaments and display in attire.

Discipline.—It is intended that the discipline shall be that of a well-ordered home, where a love of study and a desire to do right shall be the ruling motives.

Expenses.—For resident students, regular or special, the price of board and tuition will be $350 a year, of which $200 is to be payable in advance and $150 at the middle of the College year.

Non-resident students who will dine at the College will be charged $250 a year. These charges are expected to be much below cost, but are so fixed in order to allow students of moderate means to enter.

Students must supply their own text-books, which can be purchased at the College at reduced rates.

Washing will be charged at a moderate rate.

Scholarships.—There will be a limited number of scholarships open to members of the Society of Friends who are unable to pay the full charge, to be awarded to applicants *who are well prepared.*

These scholarships will be for one year, to be renewed until graduation in the case of those who prove worthy.

Fellowships.—It is proposed to establish fellowships of $200 each per annum, with residence in the College, to be awarded yearly to graduates of Bryn Mawr or other colleges.

Special Advantages.—The proximity of Haverford College, and of the various learned institutions of Philadelphia, will enable Bryn Mawr College to avail itself of the services of able instructors in several branches of learning, in addition to its resident professors. The astronomical observatory at Haverford, the large libraries of the city, the Academy of Natural Sciences and like collections, will be accessible to students.

The chemical laboratory will afford good opportunities for qualitative and quantitative analysis.

Apparatus for teaching physics will be placed in the hands of students, that they may not only see experiments made, but make them.

Each student of botany or biology will be furnished with a microscope for the purposes of personal observation.

It is designed that geology shall to some extent be illustrated by visits to places within reach from the College.

The various class-rooms will have cases of books of reference attached to each, so that these may be easily consulted; and the library, though not large at first, will be steadily increased with carefully selected works. The shelves will be open to students at all times, and a reading-room is attached for the quiet examination of a subject or a volume.

Illustrative collections will be added as they are found necessary.

This circular is issued at an early date in order to enable parents, teachers, and students to prepare for the opening of the College, and is designed to answer inquiries already received.

For further information address

JAMES E. RHOADS,
Vice-President of Board of Trustees,
No. 1316 Filbert Street, Philadelphia.

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CIRCULAR NO. 2.
1884.

BRYN MAWR COLLEGE,

BRYN MAWR, PA.

1885-86.

MATRICULATION.

Candidates for Matriculation are expected to present themselves for examination in the subjects which follow.

As this examination covers more ground than that given in Circular No. 1, candidates who have been preparing in accordance with it will observe the omissions allowed them in the notes; but are earnestly desired to present the studies required in the text when they can do so.*

Latin. (1) *Cæsar*, Gallic War, Books I.–IV. *Virgil*, Æneid, Books I.–VI. (or the Eclogues and five books of the Æneid). *Cicero*, seven orations, including the four against Catiline. There will be questions testing the candidate's practical knowledge of grammar, including prosody. (2) Translation at sight of passages of average difficulty. (3) Translation of English into Latin. Jones' Exercises in Latin Prose Composition indicate the amount of knowledge required. Special stress will be laid on accuracy in reading

* With the exceptions mentioned below certificates will not be accepted, but students who live at a distance are encouraged to enter into correspondence with a view to discovering whether they are well enough prepared to attempt the examination. Candidates who have passed the Harvard University examinations for women held in Cambridge, New York, Philadelphia, and Cincinnati will be admitted whenever the examination has covered the same or equal ground in the subjects required for matriculation in the college. Under similar limitations there will be accepted certificates of honorable dismissal from other colleges of a high grade.

at sight. That method of studying Greek and Latin is recommended, which treats them as far as possible like living languages.

Note A. Equivalents will be accepted. As due notice has not been given, the seven orations of Cicero, and the fifth and sixth books of the Æneid will not be required in 1885. Candidates to whom it is possible are however strongly advised to present them.

Greek. (1) *Xenophon*, Anabasis, Books I.–IV. *Iliad*, Books I.–III., with questions on grammar suggested by the text. (2) Translation at sight of easy passages from Xenophon and the Iliad, with due allowance for unusual words. (3) Simple Greek Composition, suited to the capacity of those who have studied White's First Lessons in Greek and Jones' Exercises in Greek Prose.

Note A. Equivalents will be accepted. The second and third books of the Iliad will not be insisted on in 1885, as due time for preparation has not been given.

Mathematics. (1) *Arithmetic.* As many complicated parts of Arithmetic are simplified and explained by the study of the higher mathematics, candidates are advised to offer only the following portions of school arithmetic: Fundamental Rules; Fractions; Decimals; Discount, Percentage; Simple and Compound Interest; Proportion; Compound Numbers and the Metric System, all tables necessary to the student being given; Square Root. (2) *Algebra* through Quadratic Equations. (3) *Plane Geometry.*

All candidates who do not in addition to the above present (4) *Solid Geometry* and (5) *Trigonometry* must pursue these branches in the college and pass an examination in them before receiving a degree. Students whose Matriculation Examination has included either Solid Geometry, or Trigonometry, or both, will be credited with the time which others must subsequently spend upon these studies. After 1885, candidates who do not offer Greek, are strongly advised to present at least Solid Geometry in addition to the required mathematics.

English. Each candidate for Matriculation will be required (1) to correct specimens of bad English, and (2) to write a short composition upon a subject assigned by the examiner. The composition must be correct in spelling, grammar, punctuation, expression and general arrangement.

In 1885, candidates should be familiar with the following works, from one of which the subject will be taken :— *Chaucer*, The Clerk's Tale (Griselda); *Milton*, Comus, Areopagitica; *Coleridge*, Christabel; *Ruskin*, Sesame and Lilies, lectures one and two.

History. The outlines of the History of England and of the United States.

French and German. After 1885 every candidate for Matriculation must be able to read at sight either French or German. As students will constantly be referred to books, and scientific and philological periodicals, written in French and German, they will find it of great advantage to be able to read both of these languages. In no case will any student be graduated who cannot read French and German.

There will be two examinations in French and two in German—(1) To test the candidate in pronunciation and ordinary grammatical forms. (2) To test her power of reading at sight easy prose and verse. Whitney's Grammar and Reader indicate the amount of knowledge required in German.

Candidates who do not intend to pursue a classical or purely literary course may substitute French and German for Greek. In addition to the above examinations, they must pass the following examination in French and German :

French. (1) *Racine*, Athalie; *Molière*, L'Avare; *Corneille*, Le Cid, or their equivalents. (2) The translation of simple English into French.

German. (1) *Lessing*, Nathan der Weise; *Goethe*, Iphigenie auf Tauris; *Schiller*, Wilhelm Tell. (2) The translation of simple English into German.

Note A. In both French and German the examination on the texts assigned will be strictly linguistic; it is merely intended to prove that the candidate has begun to read classical authors. In reading at sight due allowance will be made for unusual words.

Note B. In 1885 French *or* German may be substituted for Greek. As due time for preparation has not been given, in 1885 section (1) of the advanced French and German examinations will not be required. It is, however, strongly recommended.

Note C. A short course in Greek, consisting of a limited number of hours a week throughout one year, will be provided for those students who desire to take a Baccalaureate degree, and who in the matriculation examination have presented French and German instead of Greek. The college offers this course in the belief that a general knowledge of grammatical forms and of the methods of forming Greek compounds must aid scientific students in the understanding of scientific nomenclature; and that the power, so easily acquired under modern methods, of reading simple Greek prose will of necessity be a source of culture and profit to the graduates of the college.

Note D. Candidates who offer work in French and German beyond what is required for matriculation, will be credited with the time which other students spend in these studies.

Natural Science. All candidates must pass an examination in the elements of *Physical Geography*.

Candidates who omit Greek must also be examined in one of the following subjects. Two weeks before offering herself for examination the candidate must signify in which subject she intends to be examined:—

a. The elements of *Chemistry* (non-metallic elements and their more simple compounds).

b. The elements of *Physics*.

c. The elements of *Botany*.

d. The elements of *Physiology*.

COLLEGE COURSES OF STUDY.

It has been decided to adopt at Bryn Mawr the group system of studies. The college introduces it after a careful examination of the ordinary college curriculum and in the belief that it coincides with the best educational tendencies of the time. There will be provided courses of lectures, with class and laboratory work, in all the chief subjects of collegiate study—Mathematics, Greek, Latin, English, French and German, History, Chemistry, Physics, Biology, Botany, etc. Certain groups of studies may, under the guidance of the college, be elected by students; and each group leads to the Baccalaureate degree. The students are not divided into the traditional college classes. The progress of every student in Bryn Mawr will be determined only by her own talent, health, industry and previous training. As in the German universities, it will in no case be discreditable to defer graduation: the ablest student may prefer to hear a greater variety of courses. Much of the strain of college life will thus be done away with. Students of unusual attainments and ability may, on the other hand, considerably abridge their college course. Those who pass advanced examinations in mathematics and languages may study a greater number of subjects, or so arrange their studies as to obtain a degree in less time. The usual time is held by the college to be four years after matriculation.

There will be no marked distinction between students of science and of language. The standard of matricula-

tion is the same for all. The courses of study are so arranged as to require the same persistence of application; there is a like severity of examination for all classes of students. The college will from the outset maintain a high standard in giving its Baccalaureate degree. Each graduate will be liberally trained in the two leading ancient and the three chief modern languages, in mathematics, and in some science, the proportion of time spent in these and other studies being decided by the student, under the regulation of the Faculty. The system of grouped major and minor courses insures a training at once more liberal and more special than could be achieved, did every student combine elective studies at pleasure. A few studies are required of all; while each student is furthermore allowed to concentrate her attention on two or three subjects especially interesting to her, and thus to lay the foundations of a specialist's knowledge. For instance, those who intend to study medicine after graduation may elect as major subjects Biology and Chemistry, and spend in these studies four or five hours per week during four years.

It is therefore to the interest of every student to offer, at entrance, advanced mathematics, and three, or if possible all four languages; remembering that even to fail in such of these examinations as are not strictly obligatory, will not affect the candidate's collegiate standing, and that to pass them successfully would leave her nearly free for elective study under the group system and for true collegiate work. All subjects potentially included in the entrance examination are regarded by the College as preparatory. Great pains have been taken in the organization of the advanced courses; and it is not desirable that the time of students within the college should be needlessly withdrawn from these and spent upon preparatory work

A tabular statement of the different groups of studies leading to a degree, and the announcement of courses of lectures and class and laboratory work, as arranged for the year 1885–86, will be published in the Bryn Mawr College Catalogue, which is expected to appear at the beginning of the new year.

Graduates.

The college courses will be such as fully to repay postgraduate study. There will be provided also, whenever possible, graduate courses of instruction. Graduates and graduate holders of fellowships will stimulate each other. The supervision of professors, modern in their methods, will make it possible for such students to become acquainted with the progress already made in their own lines of work, while enabling them to become independent investigators. Advanced study will be facilitated by the library, where the leading scientific, philological and literary journals of Europe and America will be taken.

Fellowships.

The college has established five fellowships to be annually awarded to graduate students. By them the holder will be entitled to free tuition, a furnished room in the college buildings and the sum of $350 yearly. Board will be charged at the regular college rates of $150 for the scholastic year. The presentation of some original work done during the year, for the approval of the professors, will be the condition of tenure.

The fellowships are awarded as an honor and are intended to be an endorsement of previous attainments. No one will be allowed to compete who has not already

a college degree, or a certificate of prolonged study under well-known instructors. There must also be evidence of special study in some one or two directions.

Fellowships will be given in the following departments:

a. *Greek.*
b. *English.*
c. *Mathematics.*
d. *History.*
e. *Biology.*

Scholarships.

1. *The Bryn Mawr European Scholarship* will be awarded annually to a graduate of Bryn Mawr, the candidate to be chosen for excellence in scholarship. The holder will receive the sum of $500, applicable to the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the college.

2. Three partial scholarships of $200 each will be open to members of the Society of Friends, who are unable to pay the full charge for tuition and residence. When there are more than three applicants, the candidates will be selected by competitive examination, and in no case can the scholarship be held by any one who has not passed the matriculation examination with credit. These scholarships will be for one year only, but will be renewed until graduation, when the progress of the student is satisfactory to the Faculty.

College Buildings.

A full description of the location and character of the buildings will be given in the Bryn Mawr College Catalogue. The college is situated at Bryn Mawr, ten miles

west of Philadelphia, on the Penna. R. R. The following buildings are now nearly completed:

1. *Taylor Hall*, a central college building, comprising lecture rooms, laboratories, an assembly hall, and a library.

2. *Merion Hall*, containing ten single rooms and eighteen sets of rooms, so arranged that each study has a bedroom on either side. These sets are intended to be occupied by two students, who have the study in common. Each single room and in the sets of rooms each study has an open fire-place. There are on the grounds other cottages which will be used as soon as Merion Hall is full.

3. *A Gymnasium*, which will be one of the most commodious yet provided for women. It is built according to Dr. Sargent's system, and will be furnished with his complete apparatus, and placed in the charge of a Directress trained by him. It will be provided with baths and dressing-rooms; besides a large area reserved for gymnastic exercises, it will contain a running and walking track for use in stormy weather.

Expenses.

The price of tuition will be $100 per year. Board and residence will cost $250, when a student occupies a single room, and $300 when she shares with another student a set of three rooms.

In special cases two students may be allowed to share a single room, thus reducing the expense of board and residence to $200.

The price of board, residence and tuition will be accordingly $350 and $400 (or in special cases $300), one half payable semi-annually in advance.

Admission.

Regular Matriculation Examinations will be held i
1885, 6th mo. (June), 23–25; and 9th mo. (September)
15–17, in the following order:

6th mo. (*June*).		*9th mo.* (*September*).	
23.		*15.*	
Algebra,	9—12	Algebra,	9—12
Arithmetic,	12—1	Arithmetic,	12—1
Geometry,	3—6	Geometry,	3—6
24.		*16.*	
Latin,	9—12	Latin,	9—12
Greek,	3—6	Greek,	3—6
(French, German,	3—6)	(French, German,	3—6)
25.		*17.*	
English,	9—11	English,	9—11
History,	11—1	History,	11—1
Science,	3—6	Science,	3—6

Note A. Where candidates offer advanced Mathematics, and French and German in addition to Greek, these examinations will be held on the 26th and 18th respectively.

Candidates to whom it is possible are advised to present themselves at the Summer Examination. It is permissible to divide the examination and matriculate in some subjects in the summer, in others in the autumn; or to divide the examination between two consecutive years. Rooms will be assigned to students in the order of their applications. For this and other reasons it is desirable that candidates should apply early.

Inquiries and applications are to be addressed to the President.

Signed in behalf of the college,

James E. Rhoads, *President*,
No. 1316 Filbert St., Philadelphia, Pa.
M. Carey Thomas, *Dean of the Faculty*,
No. 317 Madison Ave., Baltimore, Md.

BRYN MAWR COLLEGE.

PROGRAM.

1885-86.

PHILADELPHIA:
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1885.

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Academic Appointments.

James E. Rhoads, M.D., *President of the College.*

M. Carey Thomas, Ph.D., *Dean of the Faculty and Professor of English.*

Born, Baltimore, Md. A.B., Cornell University, 1877; Studied at the Johns Hopkins University, 1877-78, and at the University of Leipsic, 1879-82; Ph.D., University of Zürich, 1882; attended lectures at the University of Paris, 1883.

Emily L. Gregory, L.B., *Associate in Botany.*

Born, Portage, N. Y. L.B., Cornell University, 1881; private student in botanical laboratories of Professor Wigand, University of Marburg, of Professor Reinke, University of Göttingen, and of Professor Schwendener, University of Berlin, 1881-83; private student in botanical laboratory of Professor Goodale, Harvard University, and in charge of the laboratory work of the Harvard Annex, 1883-84; teacher of Botany in Smith College, 1884.

Edmund B. Wilson, Ph.D., *Associate Professor of Biology.*

Born, Geneva, Ill. Ph.B., Yale College, 1878; assistant in Zoology in Yale College, 1877-79; Fellow in Biology, Johns Hopkins University, 1879-81; Ph.D., Johns Hopkins University, 1881; Assistant in Biology in the Johns Hopkins University, 1881-82; studied at the Universities of Cambridge and Leipsic, and at the Biological Station, Naples, 1882-83; Lecturer on Biology, Williams College, Mass., 1883-84, Lecturer on Physiology and Hygiene in the Massachusetts Institute of Technology, 1884-85.

Charlotte Angas Scott, D.Sc., *Associate Professor of Mathematics.*

Born, England. Gradnate in Honors, Girton College, Cambridge, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton and Newnham Colleges, Cambridge; D.Sc., University of London, 1885.

Edward Washburn Hopkins, Ph.D., *Associate Professor of Greek, Sanskrit, and Comparative Philology.*

Born, Northampton, Mass. A.B., Columbia College, 1878; Fellow in Literature, Columbia College, 1878-81; studied at the University of Leipsic, 1878-81, and at the University of Berlin, 1880; Ph.D., University of Leipsic, 1881; attended lectures at the University of Paris, 1881; Assistant in Latin and Instructor in Zend in Columbia College, 1881-84.

Paul Shorey, Ph.D., *Associate in Greek and Latin.*

Born, Davenport, Iowa. A.B., Harvard College, 1878; studied at the University of Leipsic, 1881-82, at the University of Bonn, 1882, at the American School of Classical Studies, Athens, 1882-83, and at the University of Munich, 1883-84; Ph.D., University of Munich, 1884.

Edward H. Keiser, Ph.D., *Associate Professor of Chemistry.*

Born, Allentown, Pa. S.B., Swarthmore College, 1880; Assistant in Chemistry in Swarthmore College, 1880-81; S.M., Swarthmore College, 1881; Fellow in Chemistry, Johns Hopkins University, 1882-84; Ph.D., Johns Hopkins University, 1884; student at the Royal School of Mines, Freiberg, Saxony, 1884; Assistant in Chemistry in the Johns Hopkins University, 1884-85.

Woodrow Wilson, A.M., *Associate in History.*

Born, Staunton, Va. A.B., Princeton College, 1879; A.M., 1882; studied common, statute, and international law at the University of Virginia, 1879-81; Fellow in History, Johns Hopkins University, 1883-84.

J. James Stürzinger, Ph.D., *Associate Professor of Romance Languages.*

Born, Wylen, Switzerland. Studied at the University of Marburg, 1875-76, and at the University of Leipsic, 1876-77; attended lectures at the University of Paris, 1877-78; Ph.D., University of Zürich, 1879; studied in London, Cambridge, and Oxford, 1879-81; Privatdocent at the University of Bonn, 1882-85.

An Associate in German will be called from Germany during the current year.

PLINY E. CHASE, LL.D., *Lecturer on Psychology and Logic.*

Professor of Philosophy and Logic in Haverford College.

J. RENDEL HARRIS, A.M., *Lecturer on the Bible and Biblical Study*

Fellow of Clare College, Cambridge, England: Associate Professor of New Testament Greek, in the Johns Hopkins University.

ANNA E. BROOMALL, M.D., *Consulting Physician and Lecturer on Personal Hygiene.*

Professor in the Women's Medical College of Philadelphia.

ANNA M. FULLERTON, M.D., *Lecturer on Human Physiology and Hygiene.*

CAROLYN C. LADD, *Directress of the Gymnasium.*

ELIZABETH MCCALL, *Librarian.*

Bryn Mawr College.

Bryn Mawr College was endowed by Dr. Joseph W. Taylor of Burlington, New Jersey, who proposed to found an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education which are so freely offered to young men." The site of the college was purchased and the buildings were begun during the lifetime of the founder, who died in 1880. In the same year the college was incorporated by the authority of the State of Pennsylvania, and invested with power to confer degrees. A circular of information was issued by the Trustees in 1883. A President and a Dean of the Faculty were elected in the spring of 1884. During the remainder of the year 1884, plans were matured and appointments made in the Faculty; in the autumn a second circular of information was issued, and an office at which to receive applications was opened in Philadelphia. The courtesy of the presiding officers and instructors of existing universities and colleges, facilitated an acquaintance with the prevalent collegiate systems; and the domestic organization of the woman's colleges, Vassar, Smith, and Wellesley, received careful consideration. To the Johns Hopkins University acknowledgment is especially due, since from it has been borrowed the system of major and minor electives in fixed combination.

College Calendar.

The college will open for instruction in the autumn of 1885. Lectures and class-work will begin 9th mo. (September), 21st, and will end 6th mo. (June), 11th, 1886. There will be a winter recess from 12th mo. (December), 23d, to 1st mo. (January), 6th, and a spring recess from 4th mo. (April), 21st to 28th.

Applications for scholarships or fellowships must be made to the President by the 15th of 5th mo. (May), 1885.

Examinations will be held 6th mo. (June), 23d–26th; and 9th mo. (September), 15th–18th, in the following order:

6th mo. (June)		*9th mo. (September).*	
23.		15.	
Algebra,	9—12	Algebra,	9—12
Arithmetic,	12—1	Arithmetic,	12—1
Geometry,	3—6	Geometry,	3—6
24.		16.	
Latin,	9—12	Latin,	9—12
Greek,	3—6	Greek,	3—6
French, German,	3—6	French, German,	3—6
25.		17.	
English,	9—11	English,	9—11
History,	3—6	History,	11—1
Science,	3—6	Science,	3—6
26.		18.	
Solid Geometry, Trigonometry,	9—12	Solid Geometry, Trigonometry,	9—12
French, German,	3—6	French, German,	3—6

Admission Three classes of persons will be admitted to the lectures and class-work of the college; namely: undergraduate students, graduate students, and hearers. Undergraduate students must have fulfilled the requirements for matriculation. Graduate students must have presented a diploma from some college of acknowledged standing. Hearers will be excused from passing the matriculation examination; but they will be strictly distinguished from matriculates, and will not be entitled to reside in the college. They must satisfy the several instructors that they can profit by the courses which they desire to follow, and their admission to recitations, examinations, and laboratory exercises, will depend on the express consent of the instructor in charge. They must be women of at least twenty-five years of age, and must furnish proof that they have at some time pursued the studies which are included in the matriculation examination.

Undergraduate and graduate students may or may not study for a degree. Undergraduates who do not wish to enter upon the studies leading to a degree, must enrol themselves as special students.

Blank forms of application for admission should be obtained from the President.

Matriculation.

All candidates for matriculation who do not present a certificate of honorable dismissal from some college or university of acknowledged standing, must be examined in the following subjects.*

Latin. (1) *Cæsar*, Gallic War, Books I.–IV. *Virgil*, Æneid, Books I.–VI. (or the Eclogues and five books of the Æneid). *Cicero*, seven orations, including the four against Catiline. There will be questions testing the candidate's practical knowledge of grammar, including prosody. (2) Translation at sight of passages of average difficulty. (3) Translation of English into Latin. Special stress will be laid on accuracy in reading at sight. That method of studying Greek and Latin is recommended, which treats them as far as possible like living languages.

Greek. (1) *Xenophon*, Anabasis, Books I.–IV. *Iliad*, Books I.–III., with questions on grammar suggested by the text. (2) Translation at sight of easy passages from Xenophon and the Iliad, with due allowance for unusual words. (3) Simple Greek Composition, suited to the capacity of those who have studied White's First Lesson in Greek and Jones' Exercises in Greek Prose.

Note. Equivalents will be accepted.

Mathemetics. (1) *Arithmetic.* Since many complicated parts of Arithmetic are simplified and explained by the study of the higher mathematics, candidates are advised to offer only the following portions of school arithmetic: Fundamental Rules; Fractions; Decimals; Discount; Percentage; Simple and Compound Interest; Proportion; Compound Numbers and the Metric System, all tables necessary to the student being given; Square Root. (2) *Algebra*, through Quadratic Equations. (3) *Plane Geometry.*

All candidates who do not in addition to the above present (4) *Solid Geometry* and (5) *Trigonometry* must pursue these branches in the college and pass an examination in them before receiving a degree. It is especially urged upon those who do not offer Greek, and upon those preparing for the Mathematical

* But candidates wishing to matriculate in 1885 may consult Circular No 2, where certain exceptions are made in their favor.

Course, to pass the entire matriculation examination in Mathematics. These candidates are advised to confine themselves to Algebra; Plane Geometry of the straight line, the circle, and the conic sections; Solid Geometry and Trigonometry. More benefit will be derived from a thorough acquaintance with the pure geometrical methods, than from a little knowledge of Analytical Geometry.

Note. Students whose matriculation examination has included either Solid Geometry, or Trigonometry, or both, will be credited with the time which others must subsequently spend upon these studies.

English. Each candidate for matriculation will be required (1) to correct specimens of bad English, and (2) to write a short composition upon a subject assigned by the examiner. The composition must be correct in spelling, grammar, punctuation, expression, and general arrangement.

In 1885, candidates should be familiar with the following works, from one of which the subject will be taken: *Chaucer*, The Clerk's Tale (Griselda); *Milton*, Comus, Areopagitica; *Coleridge*, Christabel; *Ruskin*, Sesame and Lilies, lectures one and two.

In 1886, the subject will be taken from one of the following works: *Spenser*, Fairie Queen, first five cantos; *Keats*, Eve of St. Agnes; *Sir Philip Sydney*, Defence of Poetrie; *Lamb*, Essays of Elia (Detached thoughts on books and reading, Christ's Hospital five and thirty years ago); Hawthorne's *Twice-Told Tales.*

Note. Those who are preparing for the Examination in English should, if possible, accustom themselves to read standard authors, and to reproduce in writing the substance of what they have read. Whitney's Essentials of English Grammar is recommended.

History. The outlines of the history of England and the United States.

Note. Doyle's History of the United States, and Thompson's History of England are recommended.

French and German. Every candidate for matriculation must be able to read at sight either French or German.

There will be two examinations in French and two in German—(1) To test the candidate in pronunciation and in ordinary grammatical forms. (2) To test her power of reading at sight.

Whitney's Grammar and Reader are recommended to those preparing for the examination in German.

Note. Constant reference will be made to foreign scientific and philological journals, and to books written in French and German; it will therefore be of very great advantage to the student to read both of these languages. In no case will any one be graduated who cannot read French and German.

Latin, French, and German, instead of Greek, Latin, and French or German, may be presented by those candidates who do not intend to pursue a classical or a purely literary course. The following additional examination in French and German will be required of all who omit Greek:

French. (1) *Racine*, Athalie; *Molière*, L'Avare; *Corneille*, Le Cid; or their equivalents. (2) The translation of simple English into French.

German. (1) *Lessing*, Nathan der Weise; *Goethe*, Iphigenie auf Tauris; *Schiller*, Wilhelm Tell; or their equivalents. (2) The translation of simple English into German.

Note A. The first examination in French and German is a sufficient test of the candidates' facility in reading; the second examination is meant to prove that they have actually begun to read classic authors. Except in so far as may be necessary to demonstrate that the assigned texts have been read, this examination will be strictly linguistic.

Note B. A short course in Greek will be provided for those students who in the matriculation examination have not presented Greek and will be required of candidates for a B. A. degree. The College offers this course in the belief that a general knowledge of grammatical forms and of the methods of forming Greek compounds must aid scientific students in the understanding of scientific nomenclature; and that the power, so easily acquired under modern methods, of reading simple Greek prose will of necessity be a source of culture and profit to the graduates of the college.

Natural Science. All candidates must pass an examination in the elements of *Physical Geography.*

Candidates who omit Greek must also be examined in one of the following subjects. Two weeks before offering herself for examination the candidate must signify in which subject she intends to be examined:

a. The elements of *Chemistry* (non-metallic elements and their more simple compounds).

b. The elements of *Physics.*

c. The elements of *Botany.*

d. The elements of *Physiology.*

All subjects potentially included in the examination for admission are regarded by the college as preparatory and non-collegiate. The college course of instruction in mathematics, for example, does not include but presupposes trigonometry; the courses in French and German presuppose a reading knowledge of these languages.

It is therefore to the interest of every student to offer, at entrance, advanced mathematics, and if possible all four languages; remembering that even to fail in such of these examinations as are not strictly obligatory, will not affect the candidate's collegiate standing, and that to pass them successfully would leave her nearly free for elective study under the

group system and for true collegiate work. Great pains have been taken in the organization of the advanced courses; and it is not desirable that the time of students within the college should be needlessly withdrawn from these and spent upon preparatory work.

Candidates who have passed the Harvard University examinations for women held in Cambridge, New York, Philadelphia and Cincinnati, will be admitted, whenever the examination has covered the same or equal ground in the subjects required for matriculation in the college. The certificate of honorable dismissal from another college of acknowledged standing will be accepted under similar limitations.

In no other cases will certificates be accepted.

Studies leading to the degree of Bachelor of Arts.

The following courses of study must be pursued by every candidate for the degree of Bachelor of Arts.

English, see page 22.

Science, or *Science and History*, *i. e.*, any two of the following minor courses in Science: Physics, see page 31, Chemistry, see page 31, Biology, with special reference either to plant or animal life, see page 33; or else any one of these courses, together with one of the following courses in History: Ancient History, see page 29, Modern History, see page 29.

Philosophy, see page 27.

Two Major courses, known as "Major Electives," and constituting one of the following groups. Any language with any language, see page 19; Mathematics with Greek or Latin, see page 30, ultimately with Physics, see page 31; Chemistry with either branch of the Biological course, see page 31, History with Political Science, see pages 28–29.

Free Electives, five hours weekly for a year or a year and a half, to be chosen by the student. It should be observed that a single study may be taken as a Free Elective, without electing the group which includes it.

The student may consult the Dean of the Faculty in regard to the details and best arrangement of the various studies.

The students are not divided into the traditional college classes, nor is there any time set for graduation; in order to pursue a wider course of reading in connection with single subjects, or to attend a greater variety of lectures, the ablest student may choose to defer graduation, and, on the other hand, the

usual period of collegiate study may be abridged; personal considerations only will determine the time spent in completing the studies required for a degree. Nevertheless, these requirements constitute strictly a Four Years' Course; that is to say, that, if the usual time given to lectures and class-work be computed at fifteen hours weekly, a student who passed the ordinary matriculation examination, and availed herself of the preliminary courses of the college on the subjects which that examination did not include, would, in all cases, require precisely four years.

Special students.

After passing the matriculation examination, special students may elect what courses they please, although the instructors in the several departments may require of them certain introductory or auxiliary studies.

Hearers.

For the admission of any person as hearer, the express consent of the instructor is required. Hearers differ, moreover, from special students in that they are not recognized by the College, and can receive only such certificates of collegiate study as may be given them by the several instructors. They cannot receive degrees.

Graduate students.

Graduates of Bryn Mawr College, and graduates of other colleges of good repute, may, under the same limitations as undergraduate special students, elect what courses they please, and are moreover entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations, from the instructors. Their needs will be considered in the arrangement of new courses of lectures.

Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may, at their discretion, enrol themselves as candidates for the degrees of Doctor of Philosophy and Master of Arts. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

Fellows.

The most distinguished place among graduate students will be held by the fellows. Five fellowships are awarded annually —one in Greek, one in English, one in Mathematics, one in

History and one in Biology. They are awarded as an honor, and are intended to be an endorsement of previous attainments; they entitle the holder to free tuition, a furnished room in the college buildings, and the sum of three hundred and fifty dollars yearly.* They are open to graduates of Bryn Mawr College, or of any other college of good standing. No one may compete who has not a college degree or a certificate of prolonged study under well-known instructors; and, generally speaking, the fellowship will be given to the candidate who has studied longest or whose work affords the best promise of future success. All applications must be made at least four months before the opening of the scholastic year for which the fellowship is desired, and blank forms will be forwarded to the applicant. A definite answer will be given within two weeks from the last date fixed for application. The holder of a fellowship is expected to show, by the presentation of a thesis, or in some other manner, that her studies have not been without result. All Fellows may study for the degree of Doctor of Philosophy, the fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts.

The Bryn Mawr European Fellowship. The Bryn Mawr European Fellowship will be awarded annually to a graduate of Bryn Mawr College, on the ground of excellence in scholarship. The holder will receive the sum of five hundred dollars, applicable to the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the college.

Studies leading to a Second Degree. All candidates for the degree of Doctor of Philosophy and Master of Arts, must pursue for three years, after having received their first degree, a course of liberal (non-professional) study at some college or university approved by the Faculty, and spend at least two of these years at Bryn Mawr College. They must be examined in two, and may at their discretion be examined in three subjects (the examination being of equal difficulty in either case); and must present a satisfactory dissertation on some topic included in their First, or Principal

* Board will be charged at the regular college rates of $150 for the scholastic year.

Subject. They may be required to pursue certain auxiliary studies in connection with the subjects which they have elected; and the degree of Doctor of Philosophy, like that of Bachelor of Arts, will be given to no one who cannot read Latin, French, and German, or who is wholly unacquainted with Greek. The dissertation must be printed. The degree of Doctor of Philosophy will in no case be conferred by the college as an honorary degree.

Candidates for a separate degree of Master of Arts, which will be conferred only on graduates of Bryn Mawr College, must reside at the college for at least one year after graduation, and pursue and pass an examination on a course of liberal study approved by the Faculty.

Residence.

The college buildings intended for residence will contain single rooms and sets of rooms. None of the houses will accommodate more than fifty students, and each house will be under a Mistress. There will be no common refectory, nor any interdependence between the houses. Compare the accompanying description of Merion Hall, which the other houses will resemble in the essential parts of its internal arrangement, such as furniture, heating and light: compare also the general account of the buildings, page 37.

Expenses.

The charge for tuition is one hundred dollars a year, irrespective of the number of courses attended. It is the same for undergraduate students, graduate students, and hearers. An additional charge of fifteen dollars a year is made for materials, in every laboratory course.

A special exception will be made in favor of non-resident medical students and physicians, who will be charged for a single course in Chemistry or Biology, fifty dollars, and for two courses, one hundred dollars, the laboratory charges being the same for them as for other students. A course is held to be five hours weekly of lectures and class-work, throughout the year.

The charge for board and residence will be two hundred and fifty dollars a year for each student occupying a single room, and three hundred dollars for each student occupying, together with another student, a set of three rooms. In special cases, two students may be allowed to share a single room, thus

reducing the expense of board and residence to two hundred dollars. Students who remain at the college during the winter and spring vacations will be charged seven dollars, eight and a half dollars (or in special cases, five and a half dollars) weekly, according to the rooms occupied. The charge for a student occupying a bed-room and private study, will be three hundred and fifty dollars, and in vacations ten dollars a week.

Note. The charge for board and residence includes all expense of service, heating and light, except open fires and washing. There are open fire-places in nearly all the studies and single rooms, but the rooms will be sufficiently heated by steam. Washing will be charged at the lowest current rates.

The charge for tuition is accordingly $100 a year.

The charge for board and residence is $250, $300 (or in special cases $200 and $350) a year; one-half payable half-yearly in advance.

The charge for board, residence and tuition is therefore $350 and $400 (or in special cases $300 and $450) a year.

Note. A STUDENT'S EDUCATIONAL FUND has been established for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed will be distributed by the college in the form of *partial* aid, and in most cases as a *loan*. It will be applied to the assistance of those students only who have attended courses in the college for at least one year.

Scholarships. Three partial scholarships of $200 each will be open to members of the Society of Friends, who are unable to pay the full charge for tuition and residence. When there are more than three applicants, the candidates will be selected by competitive examination, and in no case can the scholarship be held by any one who has not passed the matriculation examination with credit. These scholarships will be for one year only, but may be renewed until graduation, when the progress of the student is satisfactory to the Faculty.

INSTRUCTION.

Libraries. The College Library will be as far as possible a library for special study, and will be open for the use of the students during eleven hours of every day. The leading scientific, literary, or philological reviews will be taken, and from the beginning the sum of three thousand dollars will be expended yearly, under the direction of the heads of the several collegiate departments. The Library will open with several thousand volumes, and will be catalogued according to the Dewey system.

In Philadelphia there are the following important libraries:

The *Philadelphia Library*, which contains about 145,000 volumes. The library will at all times be open to the students for consultation. Subscription, $12.00 a year for eight volumes.

The *Mercantile Library*, which contains 150,000 volumes. Subscription, $6.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains 30,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

Laboratories.

The following rooms are appropriated to the chemical department: a general laboratory, a balance room, a lecture room, and an instructor's room. A special library for the use of students of chemistry will be placed in these rooms. A similar suite of rooms containing special biological libraries is to be appropriated to the biological department; it will include two laboratories, one of which will be exclusively botanical. There is as yet no space for a very extensive physical laboratory, and therefore, the department of Physics has not been separately organized, but is temporarily associated with the department of Chemistry. A separate room is, however, devoted to Physics, and there will be a large collection of physical apparatus.

The Group System.

It is much to be desired that all undergraduate students should enrol themselves as candidates for the degree of Bachelor of Arts, and therefore, that they should understand the precise scope and nature of the studies leading to that degree, and the significance of the group-system. A proper understanding of the group-system is moreover essential in order to comprehend the distribution and arrangement of the courses of instruction.

In all departments as yet organized there is a course of five hours a week for two years, called a Major Course. Whenever one year of this course is of such a nature that it can be taken up separately, it is marked as a Minor Course. It is required of every candidate for a degree to take two such major courses as shall be homogeneous, or shall complete each other, and major courses which fulfil this condition are designated as Groups. It is meant that the student, under this system, should

lay the foundations of a specialist's knowledge; and the Required Studies, namely, English, philosophy and science, or history and science, are intended in part to supplement the Group, and in part to ensure a more liberal training than could be achieved, did every student combine elective studies at pleasure. The two years' required course in English includes a general introduction into the study of language, and it also includes the prolonged study and practice of composition; English literature will be treated with steady reference to the comparative history of literature; and the entire course will be so planned as to give unity and domestic application to the pursuits of students of philology, and to acquaint students of science or of history, in so far as this is possible in a special course, with the results, and scope and methods of the study of language and literature. The required two years in science, or in science and history, permit the student of chemistry and philology to take physics for one year, and to pursue both branches of the biological course; or ultimately to take a major course in physics; and they ensure to the student of history and of language, for one year at least, the same kind of instruction and discipline which is received by the scientific student. The one year's course in philosophy is a general introduction into the study of the laws, conditions and history of thought.

A tabular statement of the courses leading to a degree is prefixed for the sake of clearness.

Tabular statement.

Minor Courses (One Year.)

1 and 2. English.	3. Philosophy.	4. Science, Physics, or Chemistry, or Biology.	5. Science or History.	[6.] French or German or Greek.

Two Major Courses (Two Years.)

Constituting any one of the following groups:

I.	II.	III.	IV.	*V.	*VI.
Any language with any language.	Mathematics with Greek or Latin.	Chemistry with Biology.	History with Political Science.	Mathematics with Physics.	Physics with Chemistry.

Free Electives. (Five hours weekly for a year or a year and a half.)

* *Note.* Not possible until the two years' course in Physics has been organized.

The "Minor Courses" in the above table are known as the Required Studies: the "Two Major Courses" as the Group. All Studies whatsoever fall under one of these heads, Required Studies, Group, or Free Electives.

The following combinations of studies are suggested as specimens of the combinations which may be made by students who are candidates for a degree, yet wish to specialize.

Classics. As Required Studies, 1 and 2. English, 3. Philosophy, 4. Science (Physics, Chemistry, or Biology), 5. Ancient History, [6. French or German.] As a Group, Greek and Latin. As Free Electives, advanced Greek and Latin, with or without Sanskrit.

Modern Languages (other than English). As Required Studies, 1 and 2. English, 3. Philosophy, 4. Science (Physics, Chemistry, or Biology), 5. Modern History, [6. Greek, French, or German.] As a Group, French and German, or Latin and French. As Free Electives, Spanish or Italian.

English. As Required Studies, 1 and 2. English, 3. Philosophy, 4. Science (Physics, Chemistry, or Biology), 5. Modern History, [6. Greek, French, or German.] As a Group, French and English, or Greek and English. As Free Electives, German or Latin.

Mathematics (with Latin). As Required Studies, 1 and 2, English, 3. Philosophy, 4. Physics, 5. Ancient History (or ultimately, 4 and 5. Physics), [6. Greek, French, or German.] As a Group, Mathematics and Latin. As Free Electives, Advanced Mathematics.

Mathematics (with Physics, see note, page 16). As Required Studies, 1 and 2. English, 3. Philosophy, 4. Chemistry. 5. Biology, [6. Greek, French, or German.] As a Group, Mathematics and Physics. As Free Electives, Advanced Mathematics.

History. As Required Studies, 1 and 2. English, 3. Philosophy, 4. Science, 5. Italian or Spanish, [6. Greek, French, or German.] As a Group, History and Political Science. As Free Electives, History of German, or of French, Literature.

Science. As Required Studies, 1 and 2. English, 3. Philosophy, 4. Physics, 5. Botany. As a Group, Chemistry and Biology (animal). As Free Electives, Botany.

The following combinations might be adopted by those who wish to pursue a major course in History or Science, yet not to elect an historical or scientific group.

I. As Required Studies, 1 and 2. English, 3. Philosophy, 4. Science, 5. Ancient History, [6. Greek, French, or German.] As a Group, Any Language with any Language, or Chemistry and Biology. As Free Electives, Modern History.

II. As Required Studies, 1 and 2. English, 3. Philosophy, 4. Science (Physics), 5. Science (Chemistry), [6. Greek, French, or German.] As a Group, Any Language with any Language. As Free Electives, second year in Chemistry, or one year in Biology.

Since the time of graduation is determined only by the completion of the prescribed course, there is an entire freedom from over-pressure. All matriculated students may receive the degree of Bachelor of Arts when the prescribed course of study has been satisfactorily completed. On the other hand, as is shown by the recognition of special students, it is not required of any one to apply for a degree; and no degree will be conferred, unless the course has been completed with credit.

Lectures. It is the object of the lectures to give a clear and succinct statement of facts and principles; to enumerate and criticise with frankness hand-books, authorities and editions; to touch upon minor or far-lying points with such distinctness as may enable the student to investigate them intelligently at some future day; to bring the student's knowledge down to date, and to inform her, step by step, what things have been definitely ascertained, and what things remain to be investigated. It is intended that the notes taken on these lectures, in addition to their immediate practical use, shall be of lasting value for reference, and be the starting-point, or at least the schedule, of studies to be undertaken subsequently. Every isolated student knows how difficult it is to be initiated into the modern scholastic movement otherwise than orally; and, therefore, in addition to the lectures, the several instructors will appoint certain hours in which the students may consult them freely.

The lectures will be accompanied by class-work, and by frequent examinations. Enough has been said to show that they will be strictly special, not popular.

It should be borne in mind that each instructor will teach or lecture only a limited number of hours, that it is necessarily

uncertain, whether all the courses which are offered in the first year will be actually taken, and that should this limit of hours seem likely to be much exceeded, the number of instructors must be increased. The Professors or Associates appointed are the recognized heads of their departments, and only such instructors have been chosen as are qualified to direct both graduate and undergraduate work.

Courses of Study.

There will be minor courses of instruction in Physics and in Philosophy, and major courses in the following subjects: Greek, Latin, English, German, French, Italian and Spanish, Mathematics, Chemistry, Biology, History, and Political Science.

Courses in Language and Literature.

The courses in language and literature are meant first of all to be complete in themselves, and extensive enough to meet the needs of special students; and secondly to facilitate the study of comparative philology or of comparative literature. Whenever it has been practicable, as in all the modern languages, one-half of the major course has been devoted to strictly linguistic studies, and the other half to the history of literature. In the major courses of Greek and Latin, the customary text-reading will be supplemented by lectures on the history of literature; the advanced course in Greek will ultimately be constructed on the model of a major course, one year being devoted to comparative Philology and Sanskrit, and one to literary studies and the reading of difficult texts. Courses of parallel reading will be required of all students of language and literature, precisely as laboratory work is required of the students of Chemistry or Biology; these courses are intended to acquaint the students with the works of numerous authors, and it is especially hoped that students of Greek and Latin will by this means accustom themselves to read these languages constantly, and without assistance.

The courses in ancient and modern languages will be of equal difficulty, and will be placed on a footing of equality. The traditional separation between ancient and modern languages has been disregarded, because, although strictly classical students may always be inclined to combine Greek and Latin, there is, nevertheless, no modern literature, of which the study may not fitly be preceded, or supplemented, by the study of Latin or Greek.

GREEK.

Beginners' Course. A course of five hours, weekly, throughout the year, will be provided for those students whose matriculation examination did not include Greek. Of this course one-half year only will be obligatory upon students of Science, but on the other hand it is hoped that those students who complete it, and who desire to continue the study of Greek, will be enabled with less difficulty to pursue the additional course of study necessary to fit them to pass the matriculation examination in Greek, and to enter upon the first year of the major course.

Major Course. The major course in Greek will be as follows:

First Year.

(Minor Course.)

1st Semester.

Plato, *Apology;* Odyssey, *Merry's Selections.* — *Four times weekly.*

Private Reading: Xenophon, *Memorabilia I.*

Exercises in Greek Prose Composition. — *Once weekly.*

2d Semester.

Herodotus, *books VI, VII;* Euripides, *Medea.* — *Four hours weekly.*

Private Reading: Euripides, *Alkestis.*

Exercises in Greek Prose Composition. — *One hour weekly.*

Second Year.

1st Semester.

Lectures on the History of Greek Poetry. — *Three times weekly.*

Æschylus, *Promotheus;* Aristophanes, *Birds.* — *Twice weekly.*

Private Reading: Sophocles, *Antigone.*

2d Semester.

Lectures on the History of the Greek Prose. — *Twice weekly.*

Demosthenes, *De Corona;* Thucydides, *Simcox's Selections, III, IV.* — *Twice weekly.*

Private Reading: Lycias, *Stevens's Selections;* Plato, *Protagoras.*

Introduction to Comparative Philology. — *Once weekly.*

Examinations on the courses of private reading will be held at the end of each semester.

Occasional lectures on the customs and habits of the Greeks and Romans will be given during the second year.

Group. Greek with any language.

Advanced Course. An advanced course in Greek will be provided for graduate students, or for those students who have completed their

major course, and desire to pursue the study of Greek as a free elective. This advanced course will be divided into two courses of one year each, one philological, and one critical and literary, one comprising Sanskrit and Comparative Philology, and one the reading of difficult texts and special studies in the history of literature. Either course may be taken separately. These courses will be varied from year to year, according to the needs of the students and at the discretion of the instructor, so that the graduate students may attend them for more than two semesters. In the first year of the college, however, the advanced course will be less extended, and will be as follows:

1*st Semester.*

Lectures on Greek Philology and Grammar. *Three times weekly.*
Sanskrit Grammar. *Twice weekly.*

2*d Semester.*

Special study of Greek Drama. *Twice weekly.*
Sanskrit. *Twice weekly.*
Comparative Philology (Lectures). *Once weekly.*

LATIN.

The major course in Latin is as follows: ***Major Course.***

First Year.

(Minor Course.)

1*st Semester.*

Livy, *books XXI, XXII;* Horace, *Satires, Odes.* *Four times weekly.*
Private Reading: Cicero, *De Amicitia;* Quintus Curtius.
Exercises in Latin Prose Composition. *Once weekly.*

2*d Semester.*

Pliny, *Selected Epistles;* Juvenal, *Selections.* *Four times weekly.*
Private Reading: *Crowell's Selections from Latin Lyric writers.*
Exercises in Latin Prose Composition. *Once weekly.*

Second Year.

1*st Semester.*

Lectures on the history of Latin literature. *Three times weekly.*
Tacitus, *Annals;* Cicero, *De Officiis.* *Twice weekly.*
Private Reading: Tacitus, *Agricola and Germania; Smith's Latin Selections.*

2d Semester.

Lucretius, *Selections;* Plautus, *Captivi*, *Mostellaria*. *Four times weekly.*

Private Reading: Terence, *Heautontimoroumenos.*

Lectures on Latin Grammar. *Once weekly.*

Examinations on the course in private reading will be held at the close of each semester.

Occasional lectures on the customs and habits of the Greeks and Romans will be given during the second year.

Group. Latin with any language. Especially recommended, Latin and Greek; Latin and French; Latin, Spanish, and Italian.

Advanced Course. An advanced course for those students who have completed the major course and desire to pursue the study of Latin as a Free Elective, will be provided subsequently, but will not be given in the first year.

ENGLISH.

The required course consists of lectures on literature and language, in which the history of English literature will be regarded as far as possible from the point of view of the historian of European literature generally (see page 16), and courses of private reading which are meant to familiarize the student with classical English authors. There will be frequent examinations on the private reading. Some instruction in note-taking will be given; and for this reason, as well as for the sake of the instruction in English prose, the student is advised, when possible, to attend the course during her first year in college.

First Year.

Required Course. *1st Semester.*

Introduction into the study of Language. History of Language. Elementary Phonetics. The English Language. Introduction into the study of Germanic customs and mythology. History of Anglo-Saxon literature. *Four times weekly.*

English Prose. *Once weekly.*

2d Semester.

History of English literature in the 12th, 13th, 14th, and 15th centuries, until the time of Shakspeare. Mediæval fashions and influences in Literature. *Four times weekly.*

English Prose. *Once weekly.*

Second Year.

1*st Semester.*

History of English literature in the time of Shakspeare. Influence of the Renaissance. History of English literature in the 17th century. *Four times weekly.*

English Prose. *Once weekly.*

2*d Semester.*

History of English literature in the 18th century. Influences of French classicism. Folk-lore and collections of popular Ballads. History of English literature in the 19th century. Neo-Hellenism. Contemporary writers, with especial reference to present literary influences. *Four times weekly.*

English Prose. *Once weekly.*

Parallel courses of private reading, in connection with the study of English Prose, as well as with the lectures, will be arranged for each semester. The hour devoted to English Prose is in effect an hour set apart for occasional lectures on style and on the right conception and treatment of such themes as may be assigned.

The courses of first and second year will be given alternately, and may be attended in reverse order.

Major Course.

The Major Course in English, which may be elected in combination with the Major Course in any other language, presupposes as much information as is contained in the Required Course. The work will be entirely special, and numerous papers must be prepared by the students. Either year of the major course may be taken separately by students who have completed the Required Course.

First Year.

(*Year in Language.*)

1*st Semester.*

Historical Study of the English Language. Reading of Gothic and Anglo-Saxon Texts. *Five times weekly.*

2*d Semester.*

Historical Study of the English Language (continued), with special reference to the dialects of Early English. Reading of Early English Texts. *Five times weekly.*

Second Year.

(*Year in Literature.*)

1*st Semester.*

Special Study of Shakspeare. *Twice weekly.*

Special Study of Chaucer. *Twice weekly.*

Modern English Grammar and Syntax. *Once weekly.*

2d Semester.

The choice of subjects during this semester will be regulated by the needs of the students, or by the appearance of important works relating to English literature. The entire year is essentially a year of seminary-work, during which the student will be required to consult all the available authorities on the subject assigned, and to state the result of her investigations.

Group. English with any language.

GERMAN.

Beginners' class. A class for beginners in German, five hours weekly throughout the year, will be provided, in order that those students whose matriculation examination did not include German may with less difficulty obtain the reading knowledge of it which they must possess before receiving a degree. By great diligence such students may, it is hoped, acquire sufficient knowledge to be admitted, should they desire it, into the Major Course in German.

Conversation class. A class in German pronunciation and conversation will meet, in the afternoon or evening, three times weekly throughout the year. It may be attended by any student who has passed the matriculation examination in German.

Major Course. The Major Course presupposes as much knowledge as is implied by the matriculation examination in this subject. It includes Gothic. Either the first or second year may be taken as a Minor Course.

First Year.

(Year in Literature.)

1*st Semester.*

History of German Literature from the earliest times to the time of the Reformation, inclusive. *Three times weekly.*

These lectures will begin with the account of German civilization found in classical authors, and will include Ulfilas, the time of Charlemagne, the Glosses, the fragments of heathen poetry, the Hêliand, Otfried, and Latin works of early date, the Nibelungenlied and the Heldenbuch, the time of Wolfram, Gottfried, Hartmann, the Minnesingers and Meistersingers, Sebastian Brandt, Hans Sachs, etc. Some account will be given of the age and condition of the manuscripts.

German Syntax and Grammar. *Once weekly.*
German Composition. *Once weekly.*

2d Semester.

History of German Literature (continued). *Twice weekly.*

These lectures will touch lightly upon the time of Opitz, and will proceed to treat of the precursors and of the contemporaries of Schiller and Goethe, of the Romantic school, and of the literature of the present time.

Schiller and Goethe. *Twice weekly.*
German Composition. *Once weekly.*

The Private Reading throughout this year will include the principal German authors. Works in Middle High German will be read during the year in Language.

Second Year.

(Year in Language.)

1st Semester.

Historical Grammar of the German Language (including Gothic, Old High German, Middle High German). *Three times weekly.*

Supplementary reading of Gothic and of Old High German Texts. *Twice weekly*

2d Semester.

Historical Grammar (continued). Analysis of modern German word-forms. *Once weekly.*

Reading of Middle High German texts, especially Wolfram and the Nibelungenlied. *Three times weekly.*

Private Reading: Middle High German authors.

German Composition. *Once weekly.*

Group. German with any language.

FRENCH.

Beginners' Class.

An introductory course resembling the introductory course in German, will be provided for the convenience of those students who in their matriculation examination omitted French.

Conversation class.

A class in French conversation and pronunciation will meet in the afternoon or evening, four times a week. It may be attended by any student who has passed the matriculation examination in French.

Major Course.

The Major Course in French presupposes as much knowledge as is required for the matriculation examination in that

subject. Either the first or second year can be taken as a Minor Course.

First Year.

(Year in Literature.)

1st Semester.

Lectures on the History of French Literature to the close of the Middle Ages. *Four times weekly.*

In connection with these lectures, and in connection with their continuation in the second semester, courses of parallel reading will be indicated, including numerous French authors and books of reference in the French language. Special examinations on the courses of reading will be held from time to time. It should be remembered that French literature and English literature are indissolubly connected, and that French is the most typical literature of the Middle Ages.

French Composition. *Once weekly.*

It will be required of the student to prepare French essays or translations, and one hour weekly will be devoted to grammatical criticism of these essays, or to needful instruction in grammar and style.

2d Semester.

Lectures on the History of French Literature, from the close of the Middle Ages to the present time. *Four times weekly.*

This course includes the French classical drama, the literature of the eighteenth century, of the Revolution, of the Restoration, and of contemporary France. The parallel courses of reading will include the most important authors, and relevant passages from modern critics.

French Composition (continued). *Once weekly.*

These exercises are progressive, and will increase in difficulty towards the end of the year.

Second Year.

(Year in Language.)

1st Semester.

Historical Grammar of the French Language. *Three times weekly.*

This course is intended to give the student a clear account of the development of the French language from the Latin, through the forms known as Old and as Middle French. It will include a general introduction into the comparative philology of the Romance languages.

Reading of Old French Texts. *Twice weekly.*

Private Reading: Old French Texts.

2d Semester.

Reading of Middle French Texts. *Twice weekly.*

Reading of Old French Texts. *Once weekly.*

Special study of Old and Middle French Dialects. *Once weekly.*

Private Reading: Middle French Texts. *Once weekly.*
Composition.
Group. French with any language.

ITALIAN AND SPANISH.

Major Course.

Italian.

(Minor Course.)

1*st Semester.*

Historical Grammar of the Italian Language. *Twice weekly.*
Practical Grammar of the Italian Language, terminating with the reading of Italian Texts. *Three times weekly.*

This course comprises a philological introduction into the study of Italian, translation of English into Italian, and class exercises in pronunciation and reading. Private reading will be assigned toward the close of the semester.

2*d Semester.*

History of Italian Literature. *Three times weekly.*
Reading of difficult passages from Dante. *Once weekly.*
Composition and Reading. *Once weekly.*

The Private Reading in this semester will include selections from Petrarch, Boccaccio, Manzoni, and Leopardi.

Examinations on the courses of private reading will be held from time to time.

Spanish.

(Minor Course.)

1*st Semester.*

Historical Grammar of the Spanish Language. *Twice weekly.*
Practical Grammar of the Spanish Language, terminating with the reading of Spanish Texts. *Three times weekly.*

This course comprises a philological introduction into the study of Spanish, translation of English into Spanish, and class exercises in pronunciation and reading. Private reading will be assigned toward the close of the semester.

2*d Semester.*

History of Spanish Literature. *Three times weekly.*
Poema del Cid. *Once weekly.*
Composition and Reading. *Once weekly.*

The Private Reading in this semester will include selections from Cervantes, Calceron, Moratin, and Fernan Caballero.

Group. Italian and Spanish with any language.

PHILOSOPHY.

The following course of five hours weekly throughout one year, will be required of all candidates for the degree of Bachelor of Arts:

Minor Course.

Lectures on the History of Philosophy, by PLINY E. CHASE, *Professor in Haverford College.* *Twice weekly in the first half of the first semester.*

The lectures will give a summary and examination of the principal philosophical systems, ancient and modern, especial attention being given to the peculiar characteristics of the Scotch, English, German, and French Schools.

Elements of Logic and Psychology, by Professor PLINY E. CHASE. *Twice throughout the remainder of the year.*

The lectures and class exercises on these subjects will direct the students to a knowledge of the laws of thought. Collateral reading and discussion of themes involving the principles laid down, will be required of members of the class.

Lectures on the Bible and Biblical Study, by J. RENDEL HARRIS, *Associate Professor of the Johns Hopkins University.* *Twice fortnightly.*

Christian Ethics, by President RHOADS. *Twice fortnightly.*

In the first part of the course the lectures will treat of the theory of ethics, and in connection with this discussion, there will be given a brief history of ethical systems. The subsequent and larger part of the course will be occupied with an examination into the moral teachings of Christianity, and into their applications.

The course in Philosophy will be given in the second (not the first) year of the college, and will be repeated every year.

Lectures on Hygiene and Human Physiology, by Dr. ANNA M. FULLERTON. *Once weekly.*

These lectures will make with the course in Philosophy, a total of five hours a week throughout the year.

HISTORY.

The courses indicated suggest the topical plan of instruction which is to be followed. The histories of Greece and Rome are taken as representative of ancient history, those of France and England as representative of mediæval and modern history; and in following these special lines the work of the classes will consist largely in the preparation by individuals of reports on specific topics and important episodes in the histories studied. These reports will be founded, not only upon the text-books used, but also upon all the standard authorities available.

Constant text-book drill will be combined with instruction by means of frequent lectures, whose object will be to give life

to the narrative of the text-book used in recitation by recounting the most important contemporary events in the history of other countries, and by pointing out the chief and most memorable characteristics of the periods studied, as well as the philosophical connection of leading facts and tendencies. The general purpose of the lectures will be to group and explain facts separated in the narrative, and to keep the student mindful of the broad views of history to which the events in the lives of individual nations stand related.

The courses on the Italian Renaissance and the German Reformation will be lecture courses.

Each year's work will be introduced by a brief course of lectures on the philosophy of history and the method of study.

First Year.

Major Course.

(Ancient History.)

History of Greece. *Three times weekly during the first semester*

History of Rome. *Three times weekly during the second semester.*

It is intended to supplement this course by the reading of several of the principal Greek and Latin historians in the original, under the instructors of the Classical Department.

Second Year.

(Modern History.)

History of France. *Three times weekly, on alternate weeks throughout the year.*

History of England. *Three times weekly, on alternate weeks throughout the year.*

Italian Renaissance and German Reformation.

Twice weekly during the first semester.

Lectures on special topics in American History.

Twice weekly during the second semester.

Either year of the major courses in History may be taken separately as a minor course.

Group. History and Political Science. Students who elect this group may take as required studies, instead of one year of science and one year of history, one year of science and one year of French, Italian or Spanish.

POLITICAL SCIENCE.

Major Course.

First Year.

Elements of Political Economy. Text-book drill and lectures. *Three times weekly throughout the year.*

History of Political Opinion. Lectures and class reports. *Twice weekly throughout the year.*

Second Year.

English and American Constitutional History. Lectures. *Three times weekly throughout the year.*

History of Political Institutions. Lectures. *Twice weekly throughout the year.*

Group. History and Political Science.

MATHEMATICS.

Preparatory Course.

Preparatory Course. *Five times weekly throughout one semester.*

The Preparatory Course is designed for students who may be in some respects well fitted to enter the College, but who have not thoroughly mastered those mathematical subjects which are optional in the entrance examination; the lectures will be adapted each year to the requirements of students taking the course; they will, generally speaking, include Trigonometry, Geometry, and a certain amount of Algebra.

Major Course.

In the Major Course the students will be able to gain a fair knowledge of the principal purely mathematical subjects. It will not be possible in the limited time to give much study to the application of Mathematics to Physics; but the courses of lectures on Dynamics, and an alternative course in the final half year, will give some opportunity for this. The subjects in this alternative course will be arranged by the instructor so as to suit the needs of students intending to take the graduate course.

First Year.

(Minor Course.)

1st Semester.

Algebra and Theory of Equations. *Twice weekly.*

Analytical Geometry of Two Dimensions. *Twice weekly.*

Elementary Dynamics. *Once weekly.*

2d Semester.

Elementary, Differential and Integral Calculus. *Two hours weekly.*

Analytical Geometry of Two Dimensions. *Twice weekly.*

Dynamics. *Once weekly.*

Second Year.

1st Semester.

Differential and Integral Calculus. *Three times weekly.*

Analytical Geometry of Three Dimensions. *Twice weekly.*

2d Semester.

Differential Equations and Elements of Finite Differences. *Three times weekly.*

Analytical Geometry of Three Dimensions or Applied Mathematics. *Twice weekly.*

Advanced or Graduate Course.

The lectures in the Graduate Course will be varied from year to year; so that while each year will be complete in itself, a graduate may, if so wishing, attend for more than two consecutive semesters. The subjects of the lectures will be announced by the instructors some weeks previously, and will be regulated partly by the requirements of those proposing to take the course.

1st Semester.

Higher Algebra. *Twice weekly.*

Geometry. *Three times weekly*

2d Semester.

Two courses of lectures in Analysis and Geometry (*e. g.*, Theory of Numbers, Quaternions, Elliptic and Theta Functions); the lectures in this course to be on different developments of the subject from year to year.

PHYSICS.

Minor Course.

A Major course in Physics will not be organized until a new laboratory has been built.

There will be given an annual course in Elementary Physics, which will consist of three recitations and two experimental lectures a week upon the subjects. Mechanics, Sound, Heat, Light, Magnetism, and Electricity. Arrangements will also be made for laboratory work.

This course will be given by the Professor of Chemistry.

Lectures. *Twice weekly.*

Recitations. *Three times weekly.*

Laboratory work. *Three hours weekly.*

CHEMISTRY.

Instruction in Chemistry will be given by means of lectures, recitations, examinations, and laboratory practice. Advanced and graduate students will be provided with all necessary facilities for continuing their studies.

First Year.

(Minor Course.)

Major Course.

1st Semester.

Introduction to General Chemistry. Lectures. *Five times weekly.*

Laboratory work. *Six hours weekly.*

The subject of the lectures will be, a general introduction to Chemistry. The more important properties of the elements and their compounds will be considered, and a thorough study will be made of the facts upon which the general laws of chemical action are based.

Laboratory work will also begin in the first semester, and the laboratory will be open for the first-year students six hours weekly. This practical course in Chemistry will begin with a series of exercises in manipulation and in the most frequently occurring chemical operations. The students will be taught the use of accurate measuring and weighing apparatus, and made familiar with the calculations employed in quantitative work. Analysis will be taught incidentally, but while studying the more important properties of the elements and their compounds, considerable attention will be devoted to a study of the quantitative relations of the substances with which the students work.

2d Semester.

General Chemistry. Lectures and Class Exercises. *Five times weekly.*

Laboratory work. *Continued as in first semester.*

The lecture-room exercises during the second semester will be upon the same general subject as in the first semester. The course, however, will be much more comprehensive, and will embrace a thorough review of the work of the first semester.

During this semester the laboratory work will be continued as in the first semester.

Second Year.

1st Semester.

Lectures and exercises on Analytical Chemistry. *Five times weekly.*

Laboratory work. *Eight hours weekly.*

2d Semester.

Lectures on Carbon Compounds. *Five hours weekly.*

Laboratory work. *Eight hours weekly.*

The lectures of the first semester of the second year's course will be upon the methods of analytical chemistry. Processes for the detection, separation, and estimation of the elements, will be considered.

Throughout the year the students will work in the laboratory eight hours weekly.

During the second semester there will be five lectures and recitations weekly, upon the chemistry of the hydrocarbons and their derivatives.

Group. Chemistry with Biology. This group is especially recommended to those intending to study medicine.

Most of the advanced work of the students will be carried on in the laboratory, which will be open daily from 9 A.M. until 5 P.M. The work will consist in making difficult and typical preparations in organic and inorganic chemistry, in exercises serving to familiarize the students with chemical literature, and in investigations on assigned topics. ***Advanced Course.***

BIOLOGY.

The instruction in Biology includes two Major Courses, one in Animal Morphology and Physiology, and one in Botany, the two being identical throughout the first half of the first year. These major courses are intended to give the student sufficient familiarity with the phenomena presented by living things, and with the more important literature of the subject, to enable her to teach successfully, or to proceed after graduation to still more advanced study, and to original investigation. For such students graduate courses will be provided, which will also be open to graduates of other colleges, or other students who can give satisfactory evidence of ability to follow them. It is expected that a sea-side laboratory for the study of marine animals and plants will be organized at an early date, and it is hoped that the work at the shore may become a valuable and attractive feature.

It is now generally admitted that the practical study of Biology forms a valuable preparation for that of medicine, partly by reason of the technical skill and knowledge thus acquired in the use of instruments and reagents, but even more through the discipline afforded by a thorough study of the phenomena of life.

ANIMAL MORPHOLOGY AND PHYSIOLOGY.

First Year.

(*Minor Course.*)

1*st Semester.*

General Biology. ***Major Course.***

Five lectures or class exercises, with a minimum of ten hours' laboratory practice weekly throughout the first half of the semester, afterwards three times weekly.

This study is designed to give the student clear conceptions of the broad and characteristic phenomena of vital structure and action, and to impart a knowledge of practical methods of laboratory work with microscope, scalpel, and reagents. For this purpose the distinction between animals and plants is of minor importance; the significant thing is their likeness rather than

their difference, since the objects of study are *living things* as a whole, rather than any particular group of them

In the first semester the student will examine selected types of animals and plants, so arranged as to form a natural and progressive introduction to the general principles of Biology. After a considerable amount of preliminary study on higher forms, the student makes a detailed examination of unicellular organisms, and from them proceeds gradually to the study of more and more complex conditions of structure and function, both in plants and animals. The Vertebrates will be reached about the end of the first semester.

Elementary Human Physiology. Lectures or class exercises, with practical demonstrations. *Twice weekly.*

This course of about fourteen lectures is designed to impart a knowledge of the more important facts of human anatomy and physiology. It will treat of the essentials rather than the minutiæ of the subject, dealing only with such facts as should be familiar to every educated person.

2d Semester.

General Biology (continued). Lectures or class exercises, with laboratory work. *Three hours weekly.*

The student will study the Biology of Vertebrates, including the Embryology of the Chick.

Elementary Botany. Plant Analysis and Classification, with laboratory practice, by EMILY L. GREGORY, *Associate in Botany.* *Twice weekly during the second half of the semester.*

In this course the student will be taught to collect and analyze plants, and will study the outlines of botanical classification.

Second Year.

In the second year the work of the first semester will deal with the structure, development and physiology of animals, with practical study to illustrate most of the more important groups. In the second semester the student passes on to advanced Physiology, especially of man and higher animals, with practical experiments and the microscopical examination of the tissues and organs of the body (Histology). The course on Higher Biology will deal in part with matters of practical interest, as the Germ Theory of Diseases, etc., but mainly with the broader philosophical questions of Biology, such as the history of the science, theories of development, general tendencies of the study and kindred topics.

A more complete outline of the Major Course will be made public in future.

1st Semester.

Comparative Anatomy and Physiology. Lectures or class exercises, with a minimum of ten hours' laboratory work.

Five times weekly.

2d Semester.

Advanced Physiology and Histology. Lectures or class exercises, with a minimum of ten hours' laboratory work.

Five times weekly.

Higher Biology. Lectures on biological topics of general interest. *Once weekly.*

For graduate students there will be lectures and laboratory work in Morphology and Physiology, with reading of French and German Memoirs. Biological Research. ***Advanced Course.***

BOTANY.

First Year.

(*Minor Course.*)

1st Semester.

Identical with first semester of the course in Animal Morphology and Physiology. See page 33. ***Major Course.***

2d Semester.

The work in General Morphology is intended to give the student an accurate acquaintance with the organs of higher plants. The lectures on Systematic Botany will include a description of the principal families, a special treatment of interesting forms, and a general review of the entire Phanerogamic group. A minimum of ten hours of laboratory work or of outside reading will be required throughout the semester. It will be the object of this laboratory work to give the student a practical knowledge of the relations between various groups and of the basis of classification. Sufficient attention will be given to the elementary work of plant analysis to insure skill and correctness.

General Morphology. Lectures and class exercises.

Three times weekly during the first half of the semester.

Elements of Anatomy. Lectures and class exercises.

Twice weekly.

Systematic Botany (Phanerogams). Lectures and class exercises from the middle to the close of the semester.

Three times weekly.

Second Year.

The work of this year leads downwards from the higher, but easily studied plants, to the more intricate and interesting forms, the natural development being followed in reverse order. The student will be shown the relation between Vascular Cryptogams and the lowest Phanerogams, and proceed through the study of typical forms to that of the lowest plant organisms. The last half of the semester is given to a general view of the whole cryptogamic group and the classification of the higher forms, especially of ferns, mosses and lichens.

1*st Semester.*

Vascular Cryptogams, including Bryophytes. Lectures or class exercises. *Three times weekly during the first half of the semester.*

Physiology, including practical experiments in the laboratory, lectures and class exercises. *Three times weekly.*

Algæ and Fungi, lectures and exercises. *Three times weekly during the second half of the semester.*

2*d Semester.*

Algæ and Fungi (continued). *Three times weekly during the first half of the semester.*

Physiology (continued). *Twice weekly during the first half of the semester.*

Systematic Botany (Cryptogams), exercises. *Three times weekly during the second half of the semester.*

Special treatment of various systems, lectures. *Twice weekly during the second half of the semester.*

HYGIENE.

In addition to the lectures on Hygiene and Physiology which are included in the minor course in Philosophy, five lectures on personal hygiene will be given at the beginning of each year by Dr. Anna E. Broomall, consulting physician of the college.

ART.

Lectures on Art. A course of lectures on the History of Art will be arranged later, so that it will be possible for every student to attend them before the close of her college course. They will be illustrated by photographs.

Scientific Drawing. There will be instruction in scientific drawing for those students who do not possess the necessary proficiency.

Opportunities for Public Worship. In the vicinity of the college there are Churches of various denominations and a Friends' Meeting House. There will be daily morning worship in the college conducted after the manner of the Society of Friends.

COLLEGE BUILDINGS.

The college buildings are situated ten miles west of Philadelphia, on the Pennsylvania Railroad, a quarter of a mile from the Bryn Mawr Station; the neighboring country is agreeable and very healthful, and toward the west there is a fine prospect of hills. The college grounds cover forty acres, and will include planted lawns and tennis courts; they are surrounded by private villas.

Taylor Hall, a large building of Port Deposit stone, contains the lecture-rooms and laboratories, and the offices of administration. Around this building it is the intention of the Trustees to erect halls or cottages for the accommodation of students; a description of Merion Hall is annexed to the present program. The Gymnasium is the most commodious yet provided for women. It contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather, a room for the Directress, to which is attached another for the examination and record of the physical development of the students, and bath rooms for use after exercise. It will be open to the students at all times. This Gymnasium has been built in accordance with the system of Dr. Sargent; it will be furnished with his complete apparatus, and placed under the charge of a Directress who has completed his course of instruction.

Near the college is a large Hotel, accommodating three hundred guests, a Telegraph Office, Adams' Express Office, and United States Money Order Office. There are good roads in every direction. Riding horses and phaetons may be kept at a livery stable near the college.

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Bryn Mawr College.

PROGRAM.

1886-87.

PHILADELPHIA:
Sherman & Co., Printers.
1886.

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Academic Appointments.

James E. Rhoads, M.D., *President of the College.*

M. Carey Thomas, Ph.D., *Dean of the Faculty and Professor of English.*

Born, Baltimore, Md. A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877-78, and at the University of Leipsic, 1879-82; Ph.D., University of Zürich, 1882; attended lectures at the Sorbonne and the Collége de France, 1883.

Emily L. Gregory, L.B., *Associate in Botany.*

Born, Portage, N. Y. L.B., Cornell University, 1881; private student in botanical laboratories of Professor Wigand, University of Marburg, of Professor Reinke, University of Göttingen, and of Professor Schwendener, University of Berlin, 1881-83; private student in botanical laboratory of Professor Goodale, Harvard University, and in charge of the laboratory work of the Harvard Annex, 1883-84; teacher of Botany in Smith College, 1884; studied at the University of Zürich, 1885-86.

Edmund B. Wilson, Ph.D., *Professor of Biology.*

Born, Geneva, Ill. Ph.B., Yale College, 1878; assistant in Zoölogy in Yale College, 1877-79; Fellow in Biology, Johns Hopkins University, 1879-81; Ph.D., Johns Hopkins University, 1881; Assistant in Biology in the Johns Hopkins University, 1881-82; studied at the Universities of Cambridge and Leipsic, and at the Biological Station, Naples, 1882-83; Lecturer on Biology, Williams College, Mass., 1883-84; Lecturer on Comparative Anatomy and Physiology in the Massachusetts Institute of Technology, 1884-85.

Charlotte Angas Scott, D.Sc., *Associate Professor of Mathematics.*

Born, Lincoln, England. Graduate in Honors, Girton College, Cambridge, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, Cambridge, 1880-84; lectured in connection with Newnham College, 1880-83; D.Sc., University of London, 1885.

Edward Washburn Hopkins, Ph.D., *Associate Professor of Greek, Sanskrit, and Comparative Philology.*

Born, Northampton, Mass. A.B., Columbia College, 1878; Fellow in Literature, Columbia College, 1878-81; studied at the University of Leipsic, 1878-81, and at the University of Berlin, 1880; Ph.D., University of Leipsic, 1881; attended lectures at the Sorbonne and the Collége de France, 1881; Assistant in Latin and Instructor in Zend in Columbia College, 1881-84.

Paul Shorey, Ph.D., *Associate in Greek and Latin.*

Born, Davenport, Iowa. A.B., Harvard College, 1878; studied at the University of Leipsic, 1881-82, at the University of Bonn, 1882, at the American School of Classical Studies, Athens, 1882-83, and at the University of Munich, 1883-84; Ph.D., University of Munich, 1884.

Edward H. Keiser, Ph.D., *Associate Professor of Chemistry.*

Born, Allentown, Pa. S.B., Swarthmore College, 1880; Assistant in Chemistry in Swarthmore College, 1880-81; S.M., Swarthmore College, 1881; Fellow in Chemistry, Johns Hopkins University, 1882-84; Ph.D., Johns Hopkins University, 1884; student at the Royal School of Mines, Freiberg, Saxony, 1884; Assistant in Chemistry in the Johns Hopkins University, 1884-85.

Woodrow Wilson, A.M., *Associate in History.*

Born, Staunton, Va. A.B., Princeton College, 1879; A.M., 1882; studied common, statute, and international law at the University of Virginia, 1879-81; Fellow in History, Johns Hopkins University, 1883-84.

J. James Stürzinger, Ph.D., *Associate Professor of Romance Languages.*

Born, Wylen, Switzerland. Studied at the University of Marburg, 1875-76, and at the University of Leipsic, 1876-77; attended lectures at the Sorbonne and the Collége de France, 1877-78; Ph.D., University of Zürich, 1879; studied in London, Cambridge, and Oxford, 1879-81; Privatdocent at the University of Bonn, 1882-85.

HERMANN COLLITZ, PH.D., *Associate Professor of German Literature and Language.*

Born, Bleckede, Hanover, Germany. Studied at the University of Göttingen, 1875–78, and at the University of Berlin, 1878–81; Ph.D., University of Göttingen, 1878; Privatdocent in the University of Halle, 1885–86.

PLINY E. CHASE, LL.D., *Lecturer on Psychology and Logic.*

Professor of Philosophy and Logic in Haverford College.

* *Lecturer on the Bible and Biblical Study*

* To be appointed at a later date.

ANNA E. BROOMALL, M.D., *Consulting Physician and Lecturer on Personal Hygiene.*

Professor in the Woman's Medical College of Pennsylvania.

ANNA M. FULLERTON, M.D., *Lecturer on Human Physiology and Hygiene.*

CAROLYN C. LADD, *Directress of the Gymnasium.*

HOLDERS OF FELLOWSHIPS IN 1885–6.

JANE M. BANCROFT, ... *History.*

Born, Stockbridge, Mass. Ph.B., Syracuse University, 1877; Ph.M., Syracuse University, 1880; Ph.D., Syracuse University, 1884; Professor of French Language and Literature, Southwestern University, Evanston, Ill., 1877–1885.

KATHERINE AUGUSTA GAGE, ... *Greek.*

Born, Wilton, N. H. A.B., Boston University, 1878; A.M., Cornell University, 1885.

MARY GWINN, ... *English.*

Born, Baltimore, Md. Studied at the University of Leipsic, 1879–82, and at the University of Zürich, 1882.

EFFIE A. SOUTHWORTH, ... *Biology.*

Born, North Collins, N. Y. B.S., University of Michigan, 1885.

ELLA C. WILLIAMS, ... *Mathematics.*

Born, Watkins, N. Y. A.B., University of Michigan, 1880; studied under Professor Schwarz, at Göttingen, fourteen months, 1883–85; in residence at Newnham College during the Spring term of 1884.

Bryn Mawr College.

Bryn Mawr College, situated at Bryn Mawr, Pennsylvania, ten miles from Philadelphia, was endowed by Dr. Joseph W. Taylor, of Burlington, New Jersey, who proposed to found an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education which are so freely offered to young men." The site of the college was purchased and the buildings were begun during the lifetime of the founder, who died in 1880. In the same year the college was incorporated by the authority of the State of Pennsylvania, and invested with power to confer degrees. A circular of information was issued by the Trustees in 1883. A President and a Dean of the Faculty were elected in the spring of 1884. During the remainder of the year 1884, plans were matured and appointments made in the Faculty; in the autumn a second circular of information was issued, and an office at which to receive applications was opened in Philadelphia. The courtesy of the presiding officers and instructors of existing universities and colleges, facilitated an acquaintance with the prevalent collegiate systems; and the domestic organization of the woman's colleges, Vassar, Smith, and Wellesley, received careful consideration. To the Johns Hopkins University acknowledgment is especially due, since from it has been borrowed the system of major and minor electives in fixed combination. In the spring of 1885 the first Program was issued, and the college opened for instruction in the following autumn with forty-four students.

College Calendar.

The second academic year will begin 10th mo., October, 4th. 1886, and will end 6th mo., June, 10th, 1887.

Examinations for matriculation will be held during the four days preceding the opening of each academic year and also during the last four days of each academic year. Candidates may

divide the examination between two successive years, or between the summer and autumn of one year. but the examination in single subjects must be taken entire.*

The examinations will also be open to those who wish to take them as a test of proficiency in elementary studies, but have no immediate prospect of entering the college.

In the year 1886–87 the examinations will be held in the following order:

6th mo., June.		*9th mo., September.*	
8.		29.	
Algebra,	9—12	Algebra,	9—12
Geometry,	3—6	Geometry,	3—6
9.		30.	
Arithmetic,	9—10	Arithmetic,	9—10
English,	10—12	English,	10—12
Greek,	3—6	Greek,	3—6
Elements of some Science,	3—5	Elements of some Science,	3—5
		10th mo., October.	
10.		1.	
Latin,	9—12	Latin,	9—12
Physical Geography,	2—3	Physical Geography,	2—3
French,	3—6	French,	3—6
11.		2.	
History,	9—11	History,	9—11
Solid Geometry and Trigonometry,	10—1	Solid Geometry and Trigonometry,	10—1
German,	3—6	German,	3—6

There will be a winter recess from 12th mo., December, 22d, to 1st mo., January, 4th, inclusive; and a spring recess from 4th mo., April, 6th, to April 12th, inclusive.

Admission Blank forms of application for admission should be obtained from the President.

Three classes of persons will be admitted to the lectures and class-work of the college; namely, graduate students, undergraduate students, and hearers.

* It is, however, permissible to divide the mathematical examination, and those students, who in addition to Physical Geography offer the elements of some other science, may divide the examination in science.

Graduate Students.

Graduate students must have presented a diploma from some college of acknowledged standing. They may pursue the advanced or graduate courses offered by the college, although the instructors in the several departments may require of them certain introductory or auxiliary studies; they are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations, from the instructors. Their needs will be considered in the arrangement of new courses of lectures.

Fellows.

The most distinguished place among graduate students will be held by the Fellows. Five Fellowships are awarded annually —one in Greek, one in English, one in Mathematics, one in History and one in Biology. They are awarded as an honor, and are intended to be an indorsement of previous attainments; they entitle the holder to free tuition, a furnished room in the college buildings, and the sum of three hundred and fifty dollars yearly.* They are open to graduates of Bryn Mawr College, or of any other college of good standing. No one may compete that has not a college degree or a certificate of prolonged study under well-known instructors; and, generally speaking, the Fellowship will be given to the candidate that has studied longest or whose work affords the best promise of future success. All applications should be made as early as possible, and must be made by the 15th of April preceding the year for which the Fellowship is desired. Blank forms will be forwarded to the applicant. A definite answer will be given within four weeks from the last date fixed for application. The holder of a Fellowship is expected to show, by the presentation of a thesis, or in some other manner, that her studies have not been without result. All Fellows may study for the degree of Doctor of Philosophy, the Fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts.

Undergraduate Students.

Undergraduate students must have fulfilled the requirements for matriculation. The studies leading to the degree of Bachelor of Arts are stated on page 11. Those students, who do not wish to study for a degree, are required to enrol themselves as special students; they will, nevertheless, in the event of a change of plan be credited with such of their studies as may have coincided with the studies leading to a degree. Attention is called

Special Students.

* Board will be charged at the regular college rates of $150 for the scholastic year.

to the fact that the Group system enables all candidates for a degree to specialize in one or more subjects.

Hearers. Hearers will be excused from passing the matriculation examination; but they will be strictly distinguished from matriculates, and will not be entitled to reside in the college. They must be women of at least twenty-five years of age, and must furnish proof that they have at some time pursued the studies included in the matriculation examination. They must satisfy the several instructors that they can profit by the courses that they desire to follow, and their admission to recitations, examinations, and laboratory exercises, will depend on the express consent of the instructor in charge. Hearers differ moreover from special students in that they are not recognized by the College, and can receive only such certificates of collegiate study as may be given them by the several instructors. They cannot receive degrees.

Examination for Matriculation. All candidates for matriculation who do not present a certificate of honorable dismissal from some college or university of acknowledged standing, must be examined in the following subjects, omitting, should they desire to do so, German, or French, or Greek (any one of them), but not Latin:*

Latin. (1) *Cæsar*, Gallic War, Books I.–IV. *Virgil*, Æneid, Books I.–VI. (or the Eclogues and five books of the Æneid). *Cicero*, seven orations, including the four against Catiline. There will be questions testing the candidate's practical knowledge of grammar, including prosody. (2) Translation at sight of passages of average difficulty. (3) Translation of English into Latin.

Note 1. Equivalents will be accepted to some extent, but all candidates must have read (*a*) Cicero, at least four orations, (*b*) Virgil, at least three books of the Æneid.

Note 2. The so-called Roman method of pronunciation, as explained in Allen and Greenough's Latin Grammar, is recommended.

Note 3. As many schools are introducing the "natural method" as a substitute for thorough grammatical training, attention is called to the fact that special stress will be laid on an accurate and ready knowledge of grammatical forms. A knowledge of paradigms and parts of irregular verbs will be insisted upon.

Greek. (1) *Xenophon*, Anabasis, Books I.–IV. *Iliad*, Books I.–III., with questions on grammar suggested by the text. (2)

* But candidates that have passed the Harvard University examinations for women held in Cambridge, New York, Philadelphia, and Cincinnati will be admitted, whenever the examination has covered the same or equal ground in the subjects required for matriculation in the college. The certificate of honorable dismissal from another college of acknowledged standing will be accepted under similar limitations. In no other cases will certificates be accepted.

Translation at sight of easy passages from Xenophon and the Iliad, with due allowance for unusual words. (3) Simple Greek Composition (White's First Lessons in Greek and Jones's Exercises in Greek Prose, or equivalents).

Note. Equivalents will be accepted to some extent, but all candidates must have read (*a*) Homer, at least two books of the Iliad, (*b*) Xenophon, at least two books of the Anabasis or Memorabilia.

French. There will be two examinations in French, one to test the candidate's knowledge of pronunciation and ordinary grammatical forms, and the other her power to read at sight ordinary French prose and verse.

Note. For the examination in reading no texts are assigned, the examination being intended to test the candidate's ability to read any ordinary French whatsoever. Candidates preparing for these examinations are advised to acquire as large a vocabulary as possible.

German. The examination in German will be precisely similar to that in French, and will test the candidate's pronunciation, knowledge of ordinary grammatical forms, and ability to read ordinary German at sight.

Mathematics. (1) *Arithmetic.* Since many complicated parts of arithmetic are simplified and explained by the study of the higher mathematics, candidates are advised to offer only the following portions of school-arithmetic: Fundamental Rules; Fractions; Decimals; Discount; Percentage; Simple and Compound Interest; Proportion; Compound Numbers and the Metric System, all tables necessary to the student being given; Square Root. (2) *Algebra*, through Quadratic Equations; Ratio; Proportion; Variation; Arithmetical and Geometrical Progression. (3) *Plane Geometry.*

All candidates that do not in addition to the above present (4) *Solid Geometry* and (5) *Trigonometry* must pursue these branches in the college and pass an examination in them before receiving a degree. It is especially recommended that those intending to elect mathematical courses should pass the entire matriculation examination in mathematics. These candidates are advised to confine themselves to Algebra; Plane Geometry of the straight line and the circle; Solid Geometry and Trigonometry. More benefit will be derived from a thorough acquaintance with the pure geometrical methods, than from a little knowledge of Analytical Geometry.

Note. Students whose matriculation examination has included either Solid Geometry, or Trigonometry, or both, will be credited with the time which others must subsequently spend upon these studies.

History. The outlines of the History of England and the United States; *or* the outlines of the History of Greece and Rome.

Note 1. Students that expect to enter the classical courses are advised to offer the outlines of Greek and Roman History. All others are advised to offer the outlines of English and United States History.

Note 2. Johnston's History of the United States, Thompson's History of England, Dr. Smith's Shorter History of Greece, and Leighton's History of Rome are recommended.

English. Each candidate for matriculation will be required (1) to correct specimens of bad English, and (2) to write a short composition upon a subject assigned by the examiner. The composition must be correct in spelling, grammar, punctuation, expression and general arrangement.

In 1886, candidates should be familiar with the following works, from one of which the subject will be taken: *Spenser*, Faerie Queene, first five cantos; *Keats*, Eve of St. Agnes; *Sir Philip Sidney*, Defence of Poetrie; *Lamb*, Essays of Elia (Detached thoughts on books and reading, Christ's Hospital five and thirty years ago); Hawthorne's *Twice-Told Tales.*

In 1887, the subject will be taken from one or more of the following works: Sir Roger de Coverly (Spectator, papers, 3, 6, 36, 106, 107 and so forth); *Carlyle*, Heroes and Hero Worship; *Matthew Arnold*, On Translating Homer; *Keats*, Hyperion; *Wordsworth*, Laodamia; *Tennyson*, Tithonus, Ulysses and Tiresias.

Natural Science. All candidates must pass an examination in the elements of *Physical Geography.*

Note. Guyot's Physical Geography is recommended.

Candidates that omit Greek must also pass an examination in the elements of *Physics*, *Chemistry*, *Botany* or *Physiology.*

Note. Balfour Stewart's Primer of Physics, Roscoe's Primer of Chemistry, Gray's "How Plants Grow," and Foster's Primer of Physiology are strongly recommended.

Remarks on Examination for Matriculation. All subjects potentially included in the examination for admission are regarded by the college as preparatory and non-collegiate. The college course of instruction in mathematics, for example, does not include but presupposes trigonometry; the courses in French and German presuppose a reading knowledge of these languages.

It is therefore to the interest of every student to offer, at entrance, advanced mathematics, and if possible all four languages; remembering that even to fail in such of these examinations as are not strictly obligatory, will not affect the candidate's

collegiate standing, and that to pass them successfully would leave her nearly free for elective study under the Group system and for true collegiate work. Great pains have been taken in the organization of the collegiate courses; and it is not desirable that the time of students within the college should be needlessly withdrawn from these and spent upon preparatory work.

Studies Leading to the Degree of Bachelor of Arts.

No student will be graduated who does not at the time of graduation possess a reading knowledge of Latin, French and German and some acquaintance with Greek. The College provides beginners' classes, five times weekly throughout one year, for those students who in the examination for matriculation may have omitted Greek, French or German; but attendance on these classes is not obligatory, the student being free to make good her deficiencies by private reading.

The following courses of study must be pursued by every candidate for the degree of Bachelor of Arts.

Required Studies.

English, see page 23.

Science, or *Science and History*, *i. e.*, any two of the following minor courses in Science: Physics, see page 34. Chemistry, see page 34, Biology, with special reference either to plant or animal life, see page 36; or else any one of these courses, together with one of the following courses in History: Ancient History, see page 30, Modern History, see page 31.

Philosophy, see page 29.

Group.

Two Major Courses, of two years each, constituting one of the following "Groups:" Any language with any language, see page 19; Mathematics with Greek or Latin, see page 32, ultimately with Physics, see page 34; Chemistry with either branch of the Biological course, see page 34. History with Political Science, see pages 30–32.

Free Electives.

Free Electives, five hours weekly for a year and a half, to be chosen by the student. It should be observed that a single study may be taken as a Free Elective, without electing the group that includes it.

The student may consult the Dean of the Faculty in regard to the details and best arrangement of the various studies.

The students are not divided into the traditional college classes, nor is there any time set for graduation; in order to pursue a wider course of reading in connection with single sub-

jects, or to attend a greater variety of lectures, the ablest students may choose to defer graduation, and, on the other hand, the usual period of collegiate study may be abridged; personal considerations only will determine the time spent in completing the studies required for a degree. Nevertheless, these requirements constitute strictly a Four Years' Course; that is to say, that if the usual time given to lectures and class-work be computed at fifteen hours weekly, a student who passed the ordinary matriculation examination, and availed herself of the preliminary courses of the college on the subjects which that examination did not include, would in all cases require precisely four years.

For a more detailed explanation of the Group system, see page 15.

The Bryn Mawr European Fellowship.

The Bryn Mawr European Fellowship will be awarded annually to a graduate of Bryn Mawr College, on the ground of excellence in scholarship. The holder will receive the sum of five hundred dollars, applicable to the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the college.

Studies Leading to a Second Degree.

Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may, at their discretion, enrol themselves as candidates for the degrees of Doctor of Philosophy and Master of Arts. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

The Degree of Doctor of Philosophy.

All candidates for the degree of Doctor of Philosophy and Master of Arts, must pursue for three years, after having received their first degree, a course of liberal (non-professional) study at some college or university approved by the Faculty, and spend at least two of these years at Bryn Mawr College. They must be examined in two, and may at their discretion be examined in three subjects (the examination being of equal difficulty in either case); and must present a satisfactory dissertation on some topic included in their First, or Principal Subject. They may be required to pursue certain auxiliary

studies in connection with the subjects that they have elected; and the degree of Doctor of Philosophy, like that of Bachelor of Arts, will be given to no one who cannot read Latin, French, and German, or who is wholly unacquainted with Greek. The dissertation must be printed. The degree of Doctor of Philosophy will in no case be conferred by the college as an honorary degree.

The Degree of Master of Arts.

Candidates for a separate degree of Master of Arts, which will be conferred only on graduates of Bryn Mawr College, must reside at the college for at least one year after graduation, and pursue and pass an examination on a course of liberal study approved by the Faculty.

Residence.

Residence in the college is not obligatory. During the year 1885–86 students living in Philadelphia or in the neighborhood of Bryn Mawr have attended the daily lectures and class work of the college; others, finding it inconvenient to return home every day, have resided in the college for five days of every week.

The college buildings intended for residence will contain single rooms and sets of rooms. None of the houses will accommodate more than fifty students, and each house will be under the care of a lady who will reside in the building. There will be no common refectory, nor any inter-dependence between the houses. Compare the accompanying descriptions of Merion Hall and of Radnor Hall, which the other houses will resemble in the essential parts of their internal arrangement, such as furniture, heating, and light; compare also the general account of the buildings on page 41.

Expenses.

The charge for tuition is one hundred dollars a year, irrespective of the number of courses attended. It is the same for undergraduate students, graduate students and hearers. An additional charge of fifteen dollars a year is made for materials, in every laboratory course.

A special exception will be made in favor of non-resident medical students and physicians, who will be charged for a single course in chemistry or biology fifty dollars, and for two courses one hundred dollars, the laboratory charges being the same for them as for other students. A course is held to be five hours weekly of lectures and class-work throughout the year.

The charge for board and residence will be two hundred and fifty dollars a year for each student occupying a single room, and three hundred dollars for each student occupying, together with another student, a set of three rooms. In special cases, two students may be allowed to share a single room, thus reducing the expense of board and residence to two hundred dollars. Students that remain at the college during the winter and spring vacations will be charged seven dollars, eight and a half dollars (or in special cases five and a half dollars) weekly, according to the rooms occupied. The charge for a student occupying a bedroom and private study will be four hundred dollars, and in vacations ten dollars a week.

Note. The charge for board and residence includes all expense of service, heating and light, except open fires and washing. There are open fire-places in nearly all the studies and single rooms, but the rooms will be sufficiently heated by steam. Washing will be charged at the lowest current rates.

The charge for tuition is accordingly $100 a year.

The charge for board and residence is $250, $300 (or in special cases $200 and $400) a year; one-half payable half-yearly in advance.

The charge for board, residence and tuition is, therefore, $350 and $400 (or in special cases $300 and $500) a year.

Note. A STUDENT'S EDUCATIONAL FUND has been established for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed will be distributed by the college in the form of *partial* aid, and in most cases as a *loan*. It will be applied to the assistance of those students only who have attended courses in the college for at least one year.

Scholarships. Three partial scholarships of $200 each will be open to members of the Society of Friends, that are unable to pay the full charge for tuition and residence. When there are more than three applicants the candidates will be selected by competitive examination, and in no case can the scholarship be held by any one who has not passed the matriculation examination with credit. These scholarships will be for one year only, but may be renewed until graduation, when the progress of the student is satisfactory to the Faculty.

INSTRUCTION.

Libraries. The College Library will be as far as possible a library for special study, and is open for the use of the students from eight A.M. to ten P.M. every day. The most important scientific, literary, and philological reviews are taken, and from the begin-

ning the sum of three thousand dollars will be expended yearly, under the direction of the heads of the several collegiate departments. The library opened with 2200 volumes, and is catalogued according to the Dewey system.

In Philadelphia there are the following important libraries:

The *Philadelphia Library*, which contains about 145,000 volumes. The library will at all times be open to the students for consultation. Subscription, $12.00 a year for eight volumes, or $10 for nine months.

The *Mercantile Library*, which contains 150,000 volumes. Subscription, $6.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains 30,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

Laboratories.

The following rooms are appropriated to the chemical department: a general laboratory, a balance room, a lecture room, and an instructor's room. A special library for the use of students of chemistry will be placed in these rooms. A similar suite of rooms containing special biological laboratories is appropriated to the biological department; it includes two laboratories, one of which will be exclusively botanical. There is as yet no space for a suitable physical laboratory, and for this reason the department of physics has not been separately organized, but is temporarily associated with the department of chemistry. There is, however, a collection of physical apparatus large enough to illustrate the lectures given, and to furnish laboratory practice for students of physics. The laboratories are open for students throughout the day.

The Group System.

It is much to be desired that all undergraduate students should enrol themselves as candidates for the degree of Bachelor of Arts, and, therefore, that they should understand the precise scope and nature of the studies leading to that degree, and the significance of the Group system. A proper understanding of the Group system is, moreover, essential in order to comprehend the distribution and arrangement of the courses of instruction.

In all departments as yet organized there is a course of five hours a week for two years, called a Major Course. Whenever one year of this course is of such a nature that it can be taken

separately, it is marked as a Minor Course. It is required of every candidate for a degree to take two such major courses as shall be homogeneous, or shall complete each other, and major courses which fulfil this condition are designated as Groups. It is meant that the student, under this system, should lay the foundations of a specialist's knowledge; and the Required Studies, namely, English, philosophy, and science, or history and science, are intended in part to supplement the Group, and in part to ensure a more liberal training than could be achieved did every student combine elective studies at pleasure. The two years' required course in English includes a general introduction into the study of language. English literature will be treated with steady reference to the comparative history of literature; and the entire course will be so planned as to give unity and domestic application to the pursuits of students of philology, and to acquaint students of science or of history, in so far as this is possible in a special course, with the results, scope, and methods of the study of language and literature. The required two years in science, or in science and history, permit the student of chemistry and biology to pursue both branches of the biological course; or ultimately to take a major course in physics; and they ensure to the student of history and of language, for one year at least, the same kind of instruction and discipline that is received by the scientific student. The one year's course in philosophy is a general introduction into the study of the laws, conditions, and history of thought.

Tabular Statement. A tabular statement of the courses leading to a degree is prefixed for the sake of clearness:

Minor Courses (One Year Each).

1. and 2.	3.	4.	5.	*[6.]
English. *Two Courses.*	Philosophy.	Science, Physics, or Chemistry, or Biology.	Science or History.	French, or German, or Greek.

* See page 11, under "Studies Leading to the Degree of Bachelor of Arts."

Two Major Courses (Two Years Each).

Constituting any one of the following groups:

I.	II.	III.	IV.	*V.	*VI.
Any language with any language.	Mathematics with Greek or Latin.	Chemistry with Biology.	History with Political Science.	Mathematics with Physics.	Physics with Chemistry.

Free Electives.

Five hours weekly for a year and a half.

The "Minor Courses" in the above table are known as the Required Studies: the "Two Major Courses" as the Group. All Studies whatsoever fall under one of these heads, Required Studies, Group, or Free Electives.

The following combinations of studies are suggested as specimens of the combinations which may be made by students who are candidates for a degree, yet wish to specialize.

Classics. *As Required Studies*, English, Philosophy, Science (Physics, Chemistry, or Biology), Ancient History, [French or German]. *As a Group*, Greek and Latin. *As Free Electives*, advanced Greek and Latin, with or without Sanskrit.

Modern Languages (other than English). *As Required Studies*, English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History, [Greek, French, or German]. *As a Group*, French and German, or Latin and French. *As Free Electives*, Spanish or Italian.

English. *As Required Studies*, English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History, [Greek, French, or German]. *As a Group*, French and English, or Greek and English. *As Free Electives*, German or Latin.

Mathematics (with Latin). *As Required Studies*, English, Philosophy, Physics, Ancient History (or ultimately, Physics), [Greek, French, or German]. *As a Group*, Mathematics and Latin. *As Free Electives*, Advanced Mathematics.

Mathematics (with Physics, see page 34). *As Required Studies*, English, Philosophy, Chemistry, Biology, [Greek, French, or German]. *As a Group*, Mathematics and Physics. *As Free Electives*, Advanced Mathematics.

History. *As Required Studies*, English, Philosophy, Science, Italian, or Spanish, [Greek, French, or German]. *As a Group*, History and Political Science. *As Free Electives*, History of German, or of French, Literature.

* *Note.* Not possible until the two years course in Physics has been organized.

Science. *As Required Studies*, English, Philosophy, Physics, Botany. *As a Group*, Chemistry and Biology (animal). *As Free Electives*, Botany.

The following combinations might be adopted by those who wish to pursue a major course in History or Science, yet not to elect an historical or scientific group.

I. *As Required Studies*, English, Philosophy, Science, Ancient History, [Greek, French, or German]. *As a Group*, Any Language with any Language, or Chemistry and Biology. *As Free Electives*, Modern History.

II. *As Required Studies*, English, Philosophy, Science (Physics), Science (Chemistry) [Greek, French, or German]. *As a Group*, Any Language with any Language. *As Free Electives*, second year in Chemistry, or one year in Biology.

Since the time of graduation is determined only by the completion of the prescribed course, there is an entire freedom from over-pressure. All matriculated students may receive the degree of Bachelor of Arts when the prescribed course of study has been satisfactorily completed. On the other hand, as is shown by the recognition of special students, it is not required of any one to apply for a degree; and no degree will be conferred, unless the course have been completed with credit.

Lectures. It is the object of the lectures to give a clear and succinct statement of facts and principles; to enumerate and criticise with frankness hand-books, authorities, and editions; to touch upon minor or far-lying points with such distinctness as may enable the student to investigate them intelligently at some future day; to bring the student's knowledge down to date, and to inform her, step by step, what things have been definitely ascertained, and what things remain to be investigated. It is intended that the notes taken on these lectures, in addition to their immediate practical use, shall be of lasting value for reference, and be the starting-point, or at least the schedule, of studies to be undertaken subsequently. Every isolated student knows how difficult it is to be initiated into the modern scholastic movement otherwise than orally; and, therefore, in addition to the lectures, the several instructors will appoint certain hours in which the students may consult them freely.

The lectures will be accompanied by class-work, and by frequent examinations. Enough has been said to show that they will be strictly special, not popular.

It should be borne in mind that each instructor will teach or lecture only a limited number of hours, that it is necessarily uncertain whether all the courses which are offered in the first years will be actually taken, and that should this limit of hours seem likely to be much exceeded, the number of instructors will be increased. The Professors or Associates appointed are the recognized heads of their departments, and only such instructors have been chosen as are qualified to direct both graduate and undergraduate work.

Courses of Study.

There will be a partial course of instruction in Physics, a minor course in Philosophy, and major courses in the following subjects: Greek, Latin, English, German, French, Italian, Spanish, Mathematics, Chemistry, Biology, Botany, History, and Political Science.

Graduate courses are offered in Sanskrit and Indo-European Philology, Greek, Romance Languages, Teutonic Languages, English, Constitutional History, Mathematics, Chemistry, Biology, and Botany.

Courses in Language and Literature.

The courses in language and literature are meant first of all to be complete in themselves, and extensive enough to meet the needs of special students; and secondly to facilitate the study of comparative philology or of comparative literature. Whenever it has been practicable, as in all the modern languages, one-half of the major course has been devoted to strictly linguistic studies, and the other half to the history of literature. In the major courses in Greek and Latin, the customary text-reading will be supplemented by lectures on the history of literature; the advanced course in Greek will ultimately be constructed on the model of a major course, one year being devoted to comparative philology and Sanskrit, and one to literary studies and the reading of difficult texts. Courses of parallel reading will be required of all students of language and literature, precisely as laboratory work is required of the students of chemistry or biology; these courses are intended to acquaint the students with the works of numerous authors, and it is especially hoped that students of Greek and Latin will by this means accustom themselves to read these languages constantly, and without assistance.

The courses in ancient and modern languages will be of equal difficulty, and will be placed on a footing of equality. The tra-

ditional separation between ancient and modern languages has been disregarded, because, although strictly classical students may always be inclined to combine Greek and Latin, there is, nevertheless, no modern literature of which the study may not fitly be preceded, or supplemented, by the study of Latin or Greek.

Courses in Science. The attention of medical students or those looking forward to the study of medicine may be called to the facilities offered by the scientific laboratories. The value of a practical knowledge of biology and chemistry as preliminary or accessory to the professional study of medicine is generally recognized. Through the courtesy of the Woman's Medical College of Pennsylvania, allowance will be made in their professional course for work carried on at Bryn Mawr in the scientific laboratories. Students of Bryn Mawr College that have completed major courses in chemistry and biology will be released from the first year's examination in the Medical College and from laboratory practice in chemistry and biology.

GREEK.

Beginners' Course. A course of five hours weekly throughout the year will be provided for those students whose examination for matriculation did not include Greek. This course is required of candidates for the degree of Bachelor of Arts. After the first month the class will be divided into two sections, students that desire to continue the study of Greek being expected to read more Greek than is required of the other students, in order that in the ensuing year they may pass the entrance examination and enter upon the first year of the major course.

Major Course.

First Year.

(*Minor Course.*)

1*st Semester.*

Lysias, *Select Orations;* Odyssey.	*Four times weekly.*
Private Reading, Plato's *Apology.*	
Exercises in Greek Prose Composition.	*Once weekly.*

2*d Semester.*

Iliad, *Selections;* Euripides, *Iphigenia in Tauris.*	*Four times weekly.*
Private Reading, Herodotus, *book VI.*	
Exercises in Greek Prose Composition.	*Once weekly.*

Second Year.

1*st Semester.*

Lectures on the History of Greek Prose.	*Twice weekly.*
Thucydides, *Selections.*	*Twice weekly.*
Sophocles, *Antigone.*	*Once weekly.*
Private Reading, Euripides, *Electra.*	

2*d Semester.*

Lectures on the History of Greek Poetry.	*Twice weekly.*
Plato, Lectures and *Selections.*	*Once weekly.*
Æschylus, *Prometheus.*	*Once weekly.*
Introduction to Comparative Philology from the point of view of Greek.	*Once weekly.*
Private Reading, Plato, *Phædo.*	

Examinations on the courses of private reading will be held at the end of each semester.

Occasional lectures on the customs and habits of the Greeks and Romans will be given during the second year.

The usual second year's work of the Major Course may be divided so as to cover a period of two years, but such division must be submitted to the approval of the instructor.

Group. Greek with any language.

Free Elective Courses.

In 1886–87 the following Elective Courses will be offered for those desiring to pursue the study of Greek beyond the completed Major Course:

Antiquities.	*Once weekly.*
Greek Philosophy.	*Once weekly.*
Greek Historians.	*Once weekly.*
Pindar.	*Twice weekly.*
Sanskrit Grammar.	*Twice weekly.*
Sanskrit Literature.	*Once weekly.*

Graduate Courses.

An advanced course in Greek is provided for graduate students. This advanced course will be divided into two courses of one year each, one philological, comprising Sanskrit and Comparative Philology, and one critical and literary consisting of the reading of difficult texts and of special studies in the history of literature. Either course may be taken separately. These courses will be varied from year to year, according to the needs of the students and at the discretion of the instructor, so that graduate students may attend them for more than two semesters.

In 1886–87, the advanced course will be as follows:

1*st Semester.*

(*a*) Lectures on Greek Philology. *Twice weekly.*
Sanskrit Grammar with selections from Lanman's Reader. *Once weekly.*
(*b*) Drama, *Selections.* *Twice weekly.*

or

(*a*) Lectures on Greek Philology. *Once weekly.*
Attic Orators (*Seminar*). *Twice weekly.*
(*b*) as above. *Twice weekly.*

2*d Semester.*

(*a*) Mahābhārata, *Selections.* *Twice weekly.*
(*b*) Lectures on Greek Drama with selections. *Once weekly.*
Greek Philosophy, *Plato and Aristotle, selections.* *Twice weekly.*

or

(*a*) Comparative Philology. *Once weekly.*
Thucydides (*Seminar*). *Once weekly.*
(*b*) as above. *Three times weekly.*

LATIN.

Major Course. The major course in Latin is as follows:

First Year.

(*Minor Course.*)

1*st Semester.*

Horace, *Odes and Satires.* *Once weekly.*
Cicero, *De Senectute and De Amicitia.* *Three times weekly.*
Private Reading, Cicero, *De Officiis.*
Latin Prose Composition. *Once weekly.*

2*d Semester.*

Livy, *book I.;* Tacitus, *Germania.* *Twice weekly.*
Horace, with lectures on the poets of the Augustan Age. *Twice weekly.*
Private Reading, Virgil, *books VII., XII.*
Latin Prose Composition. *Once weekly.*

Second Year.

1*st Semester.*

Lectures on the History of Latin Literature (Empire). *Twice weekly.*

Juvenal, *Selections.* *Once weekly.*
Tacitus, *Selections.* *Twice weekly.*
Private Reading, Pliny's Letters.

2d Semester.

Lectures on the History of Latin Literature (Republic). *Twice weekly.*
Lucretius. *Twice weekly.*
Lectures on Latin Grammar. *Once weekly.*
Private Reading, Terence, *Heautontimorumenos.*

Examinations on the course in private reading will be held at the close of each semester.

Occasional lectures on the customs and habits of the Greeks and Romans will be given during the second year.

The work of the second year of the major course may be divided as in Greek, see page 21.

Group. Latin with any language. Especially recommended, Latin and Greek; Latin and French; Latin and Spanish or Italian.

Graduate Course.

An advanced course for graduate students will be provided subsequently, but will not be given in 1886–87.

ENGLISH.

Required Course.

The required course consists of lectures on literature and language, in which the history of English literature will be regarded as far as possible from the point of view of the historian of European literature generally, see page 16, and courses of private reading, which are meant to familiarize the student with classical English authors. There will be frequent examinations on the private reading. Some instruction in note-taking will be given; and for this reason, as well as for the sake of the general introduction into literature, the student is advised, when possible, to attend the course during her first year in college.

First Year.

1st Semester.

Lectures on the study of language.

Five times weekly during the first two months.

Reading of simple Anglo-Saxon Prose.

Once weekly during the remainder of semester.

Lectures on the history of Anglo-Saxon literature; with an introduction into the study of early Germanic literature and mythology. *Four times weekly during the remainder of the semester.*

2*d Semester.*

Lectures on the history of English literature to the time of Chaucer, inclusive, with an introduction into the study of French mediæval literature. *Four times weekly.*

Reading of early English Texts. *Once weekly.*

Second Year.

1*st Semester.*

Lectures on the history of English literature from Chaucer to the Restoration, exclusive. *Four times weekly.*

English Prose. *Once weekly.*

2*d Semester.*

Lectures on the history of English literature from the Restoration to the present time. *Four times weekly.*

English Prose. *Once weekly.*

Parallel courses of private reading, in connection with the study of English Prose, as well as with the lectures, will be arranged for each semester. The hour devoted to English Prose is an hour set apart for occasional lectures on style and on the right conception and treatment of such themes as may be assigned.

The courses of the first and second year will be given alternately, and may be attended in reverse order.

Major Course. The Major Course in English, which may be elected in combination with the Major Course in any other language, presupposes as much information as is contained in the Required Course. The work will be entirely special, and numerous papers must be prepared by the students. Either year of the Major Course may be taken separately by students that have completed the Required Course.

First Year.

(*Language.*)

1*st Semester.*

Historical Study of the English Language. Reading of Gothic and Anglo-Saxon Texts. *Five times weekly.*

2d Semester.

Historical Study of the English Language (continued), with special reference to the dialects of Early English. Reading of Early English Texts. *Five times weekly.*

Second Year.

(*Literature.*)

1st Semester.

Special Study of Shakespeare. *Twice weekly.*
Special Study of Chaucer. *Twice weekly.*
Modern English Grammar and Syntax. *Once weekly.*

2d Semester.

Special study of particular authors or periods, the choice of subjects being regulated in part by the needs of the students. The year is essentially a year of seminary-work, during which the student will be required to consult all available authorities on the subjects assigned, and to state in writing the result of her investigations.

Group. English with any language.

GERMAN.

Beginners' Class.

A class for beginners in German, five hours weekly throughout the year, will be provided, in order that those students whose matriculation examination did not include German may with less difficulty obtain the reading knowledge of it that they must possess before receiving a degree. By great diligence such students may, it is hoped, acquire sufficient knowledge to be admitted, should they desire it, into the Major Course in German.

Conversation Class.

A class for German conversation will meet, in the afternoon or evening, three times weekly throughout the year. It may be attended by any student that has passed the matriculation examination in German.

Major Course.

The Major Course presupposes as much knowledge as is implied by the matriculation examination in this subject. It includes the study of Gothic. Either the first or second year of the Major Course may be taken as a Minor Course.

First Year.

(*Language—Minor Course.*)

1*st Semester.*

Historical Grammar of the German Language (including Gothic, Old High German, Middle High German).

Three times weekly.

Supplementary reading of Gothic and of Old High German Texts. *Twice weekly.*

2*d Semester.*

Historical Grammar (continued). *Twice weekly.*

Reading of Middle High German Texts, especially Wolfram von Eschenbach and the Nibelungenlied. *Three times weekly.*

Private Reading: Middle High German authors.

Group. German with any language.

Second Year.

(*Literature—Minor Course.*)

1*st Semester.*

History of German Literature from the earliest times to the time of the Reformation, inclusive. *Four times weekly.*

These lectures, which will be delivered in German, will begin with the account of German civilization found in classical authors, and will include Ulfilas, the time of Charlemagne, the Glosses, the fragments of heathen poetry, the Hêliand, Otfried, and Latin works of early date, the Nibelungenlied and the Heldenbuch, the time of Wolfram, Gottfried, Hartmann, the Minnesingers and Meistersingers, Sebastian Brandt, Hans Sachs, etc. Some account will be given of the age and condition of the manuscripts.

Study of special authors. *Once weekly.*

2*d Semester.*

History of German Literature (continued). *Four times weekly.*

These lectures will touch lightly upon the time of Opitz, and will proceed to treat of the precursors and of the contemporaries of Schiller and Goethe, of the Romantic school, and of the literature of the present time.

Study of special authors. *Once weekly.*

The Private Reading throughout this year will include the principal German authors. Works in Middle High German will be read during the year in Language.

FRENCH.

Beginners' Class. An introductory course, resembling the introductory course in German, will be provided for the convenience of those students who, in their matriculation examination, omitted French.

Conversation Class.

A class for French conversation will meet in the afternoon or evening, three times a week. It may be attended by any student that has passed the matriculation examination in French.

Major Course.

The Major Course in French presupposes as much knowledge as is required for the matriculation examination in that subject. Either the first or second year can be taken as a Minor Course; the two years together forming a Major.

The lectures are delivered in French.

First Year.

(Language—Minor Course.)

1st Semester.

Historical Grammar of the French Language. *Three times weekly.*

This course is intended to give the student a clear account of the development of the French language from the Latin, through the forms known as Old and as Middle French. It will include a general introduction into the comparative philology of the Romance languages.

Reading of Old French Texts. *Twice weekly.*

Private Reading: Old French Texts.

2d Semester.

Lectures on the History of French Literature from the earliest times to the close of the 13th century. *Three times weekly.*

In connection with these lectures, and in connection with their continuation in the second year, courses of parallel reading will be indicated, including numerous French authors and books of reference in the French language. Special examinations on the courses of reading will be held from time to time. It should be remembered that French Literature and English literature are indissolubly connected, and that French is the typical literature of the Middle Ages.

French Composition. *Once weekly.*

The lectures being delivered in French, the notes taken by the students will be submitted to the instructor, and one hour weekly will be devoted to grammatical criticism or needful instruction in style.

Reading of Old French Texts (continued). *Once weekly.*

Private Reading: Old French Texts.

Second Year.

(Literature—Minor Course.)

1st Semester.

Lectures on the History of French Literature of the 14th, 15th, 16th, and 17th centuries. *Four times weekly.*

French composition (continued). *Once weekly.*

The Private Reading will include the most important authors, especially those of the Classical Drama.

2d Semester.

Lectures on the History of French Literature of the 18th and 19th centuries. *Four times weekly.*

This course comprises the reading of selections from the most important authors of the 18th century, of the Revolution, of the Restoration, and of contemporary France.

French Composition. *Once weekly.*

It will be required of the student to prepare French essays or translations, and one hour weekly will be devoted to grammatical criticism of these essays, or to needful instruction in grammar and style.

The courses of the first and of the second year will be given alternately.

Group. French with any language.

Graduate Courses. Special courses in Old French and in Romance Philology and Romance Dialects will be given for graduate students. The work will vary from year to year.

ITALIAN.

Major Course.

First Year.

(*Language—Minor Course.*)

Historical Grammar of the Italian Language, terminating with reading of Italian texts. *Five times weekly.*

This course comprises a philological introduction into the study of Italian, translation of English into Italian, and class exercises in pronunciation and reading. Private reading will be assigned toward the close of the year.

Second Year.

(*Literature.*)

History of Italian Literature, and special study of Dante. *Four times weekly.*

Composition and Reading. *Once weekly.*

The Private Reading in this course will include selections from Petrarch, Boccaccio, Manzoni, and Leopardi.

Examinations on the courses of private reading will be held from time to time.

The courses of the first and of the second year will not be given simultaneously.

Group. Italian with any language.

SPANISH.

First Year.

Major Course.

(*Language—Minor Course.*)

Historical Grammar of the Spanish Language, terminating with reading of Spanish Texts. *Five times weekly.*

This course comprises a philological introduction into the study of Spanish, translation of English into Spanish, and class exercises in pronunciation and reading. Private reading will be assigned toward the close of the year.

Second Year.

(*Literature.*)

History of Spanish Literature, with reading of selections of the most important texts. *Four times weekly.*

Composition and Reading. *Once weekly.*

The Private Reading in this course will include selections from Cervantes, Calderon, Moratin, and Fernan Caballero.

The courses of the first and of the second year will not be given simultaneously.

Group. Spanish with any language.

PHILOSOPHY.

Minor Course.

The following course of five hours weekly throughout one year, will be required of all candidates for the degree of Bachelor of Arts:

Lectures on the History of Philosophy, by Professor Pliny E. Chase. *Twice weekly in the first half of the first Semester*

The lectures will give a summary and examination of the principal philosophical systems, ancient and modern, especial attention being given to the peculiar characteristics of the Scotch, English, German, and French Schools.

Elements of Logic and Psychology, by Professor Pliny E. Chase. *Twice weekly throughout the remainder of the year.*

The lectures and class exercises on these subjects will direct the students to a knowledge of the laws of thought. Collateral reading and discussion of themes involving the principles laid down, will be required of members of the class.

Lectures on the Bible and Biblical Study, by *Twice fortnightly.*

Christian Ethics, by President Rhoads. *Twice fortnightly.*

In the first part of the course the lectures will treat of the theory of ethics, and in connection with this discussion, there will be given a brief history of ethical systems. The subsequent and larger part of the course will be occupied with an examination of the moral teachings of Christianity, and of their applications.

Lectures on Hygiene and Human Physiology, by Dr. Anna M. Fullerton. *Once weekly.*

These lectures will make, with the course in Philosophy, a total of five hours a week throughout the year.

HISTORY.

The courses indicated suggest the topical plan of instruction which is to be followed. The histories of Greece and Rome are taken as representative of ancient history, those of France and England as representative of mediæval and modern history; and in following these special lines the work of the classes will consist largely in the preparation by individuals of reports on specific topics and important episodes in the histories studied. These reports will be founded, not only upon the text-books used, but also upon all the standard authorities available.

Constant text-book drill will be combined with instruction by means of frequent lectures, whose object will be to give life to the narrative of the text-book used in recitation, by recounting the most important contemporary events in the history of other countries, and by pointing out the chief and most memorable characteristics of the periods studied, as well as the philosophical connection of leading facts and tendencies. The general purpose of the lectures will be to group and explain facts separated in the narrative, and to keep the student mindful of the broad views of history to which the events in the lives of individual nations stand related.

The courses on the Italian Renaissance and the German Reformation will be lecture courses.

Each year's work will be introduced by a brief course of lectures on the philosophy of history and methods of study.

Major Course.

First Year.

(*Ancient History—Minor Course.*)

I. History of Greece. *Five hours a week on alternate weeks during the first Semester.*

In this course lectures are given on such topics as the reforms of Solon and of Cleisthenes, the causes of the Persian invasion, the character and influence of the Confederacy of Delos. As the history of the popular states of Greece turns largely upon the individual characters and influence of leading men, class reports are required on the antecedents, lives, and work of the principal statesmen, dramatists, and orators.

II. History of Rome.

Five hours a week on alternate weeks during the first semester and five hours weekly throughout most of the second semester.

In this course the lectures deal with such topics as the sources of Roman history, the causes, means, and ends of Roman conquest, Roman provincial administration, agrarian troubles, the characters, aims, and reforms of the Gracchi.

In both courses text-book drill is made prominent, but more especially in Roman history, because the internal history of Rome, down to the time of the empire, turns upon class struggles and consequent legal and constitutional reforms which can be mastered in no other way.

The plan of conducting work in both Greek and Roman history simultaneously, the two courses alternating with each other week by week, is adopted in order that the histories of the two countries may run parallel up to the point where Greek history is merged into Roman by conquest, with a view to enable the student when hearing lectures, to perceive for herself, contrasts and likenesses.

III. European history from the fall of the Western Empire to the establishment of the Empire of Charles the Great.

Lectures five hours a week during the last weeks of the second semester.

Second Year.

(*Modern History—Minor Course.*)

History of France. *Three times weekly, on alternate weeks throughout the year.*

History of England. *Three times weekly, on alternate weeks throughout the year.*

Italian Renaissance and German Reformation.

Twice weekly during the first semester.

Lectures on special topics in American History.

Twice weekly during the second semester.

The topics selected for the lectures on American history will be such as the following: the foundation of the colonies, the contest between England, Spain, and France for the possession of America, contrasts in colonial life and manners, the causes of the Revolution, the second war with Great Britain, the great westward migration, the Missouri compromise, the history of parties with especial reference to the rise and influence of the Federalist party.

Either year of the major course in History may be taken separately as a minor course.

Group. History and Political Science. Students that elect this group may take as required studies, instead of one year of science and one year of history, one year of science and one year of French, Italian or Spanish.

Two years of history may be taken without the course in political science by electing one year of history as a minor course, and a second year as a free elective.

POLITICAL SCIENCE.

Major Course.

First Year.

Elements of Political Economy. Text-book drill and lectures. *Three times weekly throughout the year*

History of Political Opinion. Lectures and class reports. *Twice weekly throughout the year*

Second Year.

English and American Constitutional History. Lectures. *Three times weekly throughout the year.*

History of Political Institutions. Lectures. *Twice weekly throughout the year.*

Group. History and Political Science.

MATHEMATICS.

Preparatory Course. A Preparatory Course of five hours weekly throughout one semester is designed for students who may be in some respects well fitted to enter the college, but who have not thoroughly mastered those mathematical subjects which are optional in the entrance examination; the lectures will be adapted each year to the requirements of students taking the course; they will, generally speaking, include solid geometry and plane and spherical trigonometry.

Major Course. The Major Course is a course in Pure Mathematics, and in the two years the students will be able to gain a fair knowledge of the principal pure mathematical subjects. It is not proposed in this course to give much study to the applications of Mathematics, but some opportunity for this will be afforded by the courses of lectures on Dynamics, and by an alternative course in the final semester. The subjects in this alternative course will be arranged by the instructor with a view to the needs of students intending to take the graduate course. The points of contact of Mathematics with other branches of mental and physical science will be indicated as far as possible throughout the course, special attention being paid to the nature of mathematical reasoning, and to the true relation and mutual dependence of Mathematics and Physics, in order that students may obtain just ideas of the scope and province of Mathematics. The course of lectures on the history of Mathematics in the second

year is intended to give an outline of the development of the subject from its beginning to the present time, with special notice of the great modern mathematicians.

First Year.

(Minor Course.)

1st Semester.

Algebra, advanced Trigonometry, and Theory of Equations. *Twice weekly.*

Analytical and Modern Geometry of Two Dimensions. *Twice weekly.*

Elementary Dynamics. *Once weekly.*

2d Semester.

Elementary Differential and Integral Calculus. *Twice weekly.*

Analytical and Modern Geometry of Two Dimensions. *Twice weekly.*

Dynamics. *Once weekly.*

Second Year.

1st Semester.

Differential and Integral Calculus. *Three times weekly.*

Analytical Geometry of Three Dimensions. *Twice weekly.*

2d Semester.

Differential Equations and Elements of Finite Differences. *Twice weekly.*

Analytical Geometry of Three Dimensions; *or* Applied Mathematics. *Twice weekly.*

History of Mathematics. *Once weekly.*

Graduate Course.

The lectures in the Graduate Course will be varied from year to year; so that while each year will be complete in itself, a graduate may, if she wish, attend for more than two consecutive semesters. The subjects of the lectures will be announced by the instructors some weeks previously, and will be regulated partly by the requirements of those proposing to take the course.

1st Semester.

Higher Algebra. *Twice weekly.*

Geometry. *Three times weekly.*

2d Semester.

Two courses of lectures in Analysis and Geometry (*e. g.*, Theory of Numbers, Quaternions, Elliptic and Theta Func-

tions); the lectures in these courses will be on different developments of the subject from year to year.

PHYSICS.

The courses in Physics will not be organized until a new laboratory has been built.

A course of experimental lectures on Elementary Physics will precede the instruction in General Chemistry. These lectures will be given five times weekly during the first ten weeks of the first semester. The subjects considered will be Mechanics, Sound, Heat, Light, Magnetism, and Electricity. Exercises in Practical Physics will also precede the laboratory work in Chemistry.

CHEMISTRY.

Instruction in Chemistry to undergraduates will be given by means of lectures, examinations, and laboratory practice. These courses extend over a period of two years, and consist of five lectures and a minimum of six hours' laboratory work weekly during both years. The chief object of these courses of instruction is to give students a thorough and systematic knowledge of chemical phenomena, and a clear conception of the relations existing between observed facts and the general theories of the science. While chemical analysis plays an important part in the instruction given during a portion of the course, it is taught only as an application of the knowledge of chemical facts which the student has already acquired.

First Year.

(*Minor Course.*)

1*st Semester.*

Major Course.

Introduction to General Chemistry. Lectures. *Five times weekly.*

Laboratory work. *Six hours weekly.*

Until the department of Physics is organized, the lectures on General Chemistry will be preceded by a course of instruction in Elementary Physics. The first ten weeks will be devoted to lectures on Mechanics, Sound, Heat, Light, and Electricity.

During the remainder of the semester the subject of the lectures will be a general introduction to chemistry. The more important properties of the elements and their compounds will be considered and a thorough study will be made of the facts upon which the general laws of chemical action are based.

Laboratory work will also begin in the first semester, and the laboratory will be open for the first year's students six hours weekly. This practical course will begin with some experiments in elementary physics which are intended to illustrate the work of the lecture-room during the first ten weeks of the semester. The practical course in chemistry will then begin with a series of exercises in manipulation and in the more frequently occurring chemical operations. The students will be taught the use of accurate measuring and weighing apparatus and made familiar with the calculations employed in quantitative work. Analysis will be taught only incidentally and not as the chief object of the science. While studying the more important properties of the elements and their compounds, considerable attention will be devoted to a study of the quantitative relations of the substances with which the students work.

2d Semester.

General Chemistry. Lectures and Class Exercises. *Five times weekly.*

Laboratory work. *Continued as in first semester.*

The lecture-room exercises during the second semester will be a continuation of the work of the first semester. The laboratory work will consist in a systematic study of the properties and behavior of the more important elements and compounds, and in a repetition of the most instructive experiments which have been performed previously in the lecture room.

Second Year.

1st Semester.

Lectures and exercises on Analytical Chemistry. *Five times weekly.*

Laboratory work. *Eight hours weekly.*

The lectures of the first semester of the second year's course will be upon the methods of Analytical Chemistry. Processes for the detection, separation, and estimation of elements will be considered.

Throughout the year the students work in the laboratory eight hours weekly. Their work will be upon the subjects considered in the lectures, and great care is taken to avoid a mere mechanical use of analytical tables, the student being encouraged to devise analytical methods without aid, using only the knowledge that she actually possesses.

2d Semester.

Lectures on Carbon Compounds. *Five hours weekly.*

Laboratory work. *Eight hours weekly.*

The subject of the lectures during the second semester will be the chemistry of the hydrocarbons and their derivatives. The laboratory work will be continued as in the first semester, the greater portion of the course being devoted to Analytical Chemistry. Toward the end of the semester a few of the typical carbon compounds will be prepared and studied in the laboratory.

Graduate Course. Opportunities for advanced study and research are provided for graduate students, that have already such a knowledge of chemistry as would be obtained by taking the two years of work laid down for undergraduates, and for others who, although not graduates, are competent to follow the advanced courses profitably. The advanced work will consist in exercises intended to give the student a comprehensive knowledge of chemical methods and operations, in difficult and typical preparations, and in researches on assigned topics. Advanced students will be required to become familiar with the literature bearing on their practical work. A knowledge of French and German will therefore be necessary. There will also be lectures from time to time upon selected topics, and upon the more recent researches in organic and inorganic chemistry.

The principal chemical journals are kept on file in the chemical library, and advanced students will be required to read and report upon the more important articles. The laboratory will be open for such students from 9 A.M. until 5 P.M. daily except Saturdays.

BIOLOGY.

Two undergraduate major courses are offered in Biology, both of which begin with a general comparative study of animals and plants (General Biology). After the first semester students may devote especial attention to the biology of animals or to that of plants at their option, passing on to courses in Comparative Zoology, Botany, Embryology, and Physiology. It is expected that a sea-side laboratory for the study of marine animals and plants will soon be established. This will be open to undergraduates as well as to those of more advanced standing, and is intended to supplement the regular work of the year, allowance being made for time thus spent.

Students that intend ultimately to enter upon the professional study of medicine are referred to the statement on page 20.

First Year.

(Minor Course.)

1st Semester.

General Biology.

Five lectures or class exercises, with a minimum of six hours' laboratory practice weekly throughout the first half of the semester, afterwards three times weekly.

This course comprises a broad comparative study of living things with constant reference to the relations between animals and plants and between the

organism and its environment. It is the object of the lectures to give the student clear conceptions of the fundamental principles of vital structure and action, the outlines of general classification, and the relations of the biological sciences to one another and to other branches of science. The laboratory practice is designed to cultivate the power of exact observation, to enable the student as far as possible to examine for herself the facts discussed in the lectures, and to impart a practical knowledge of methods of work with microscope, scalpel, and reagents.

In the first semester the student will examine a number of animals and plants, so arranged as to form a natural and progressive introduction to the general principles of Biology. After certain general preliminary studies on familiar and highly organized forms, the student makes a detailed examination of unicellular organisms, including the study of bacteria and the germ-theory of disease, and from them proceeds gradually to the complex conditions of structure and function found in higher plants and animals.

The work necessarily involves an accurate study of vital phenomena in detail, which alone can form the groundwork of any real discipline in the science. The student is, however, led as far as possible to regard facts as illustrations of more general biological truths, and to estimate the importance of these truths beyond the immediate field of the specialist.

Elementary Human Physiology. Lectures or class exercises, with practical demonstrations. *Twice weekly.*

This course of about fourteen lectures considers the more important facts of human anatomy and physiology. It will treat of the essentials rather than the minutiæ of the subject, dealing only with such facts as should be familiar to every educated person.

2d Semester.

General Biology (continued). Lectures or class exercises, with laboratory work.

Five hours weekly during the first half-semester, afterwards three times weekly.

The student will study the biology of higher plants and animals, including the embryology of the chick.

Elementary Botany. Plant Analysis and Classification, with laboratory practice, by Emily L. Gregory, *Associate in Botany.*

Twice weekly during the second half of the semester.

In this course the student will be taught to collect and analyze plants, and will study the classification of flowering plants.

Second Year.

ANIMAL MORPHOLOGY AND PHYSIOLOGY.

1st Semester.

Comparative Zoölogy. Lectures or other class exercises, with a minimum of six hours' laboratory work. *Five times weekly.*

This course extends the work of the first year so as to include a comprehensive survey of the phenomena of animal life. The lectures will deal in part with the relations of animals to one another, and to extinct forms of life as shown in their structure and mode of development; in part with their relations to their present and past environments, their habits, instincts, general physiology, and geographical distribution.

In the laboratory a certain option will be allowed, and students will, to some extent, work independently of one another. All will make dissections of typical forms illustrating the leading groups of animals. A moderate amount of work will be required in systematic zoology (the determination of species from standard manuals) to teach the student how to name and classify animals, and to learn the relation between species, genera, and the higher groups. Students looking forward to the study of medicine are recommended to devote especial attention to the anatomy of higher vertebrates and to human and comparative osteology. Others may make a more general study of comparative anatomy and microscopic structure, with courses of reading under suitable guidance.

2d Semester.

Advanced Physiology and Histology. Lectures or other class exercises, with a minimum of six hours' laboratory work.

Three times weekly.

Lectures on the special physiology of man and higher animals. The laboratory course will consist mainly of the microscopical examination of organs and tissues (Histology), with practice in the preparation of permanent microscopic specimens, and in other histological methods. The laboratory will be furnished with a small equipment of physiological apparatus for demonstrations and for simple experiments by the students.

Advanced Biology. Lectures on special and theoretical topics.

Twice weekly.

In this course the student will be introduced to some of the more interesting questions of theoretical Biology, and the lectures will include a variety of subjects which may, in part, be suggested by the students themselves. Some of the lectures will consider special problems, such as the migration of birds, the fertilization of flowers by insects, protective resemblance and mimicry, deep-sea life, instinct and intelligence, the life of animal communities, etc. In the main, however, they will consist of discussions of the broader philosophical problems of Biology, including such subjects as heredity, variation, adaptation, the metamorphosis of animals, and related topics, together with some historical account of the advances which have been made by the past and present leaders of the science. Courses of reading will be recommended in connection with the lectures.

Graduate Course. Advanced courses in Comparative Anatomy, Histology, Embryology, and Botany are offered to graduates of Bryn Mawr or of other colleges, and to other qualified students. These courses consist in part of lectures and recitations, but mainly

of less formal instruction in the laboratory, with courses of practical study and reading under the guidance of the instructors. A knowledge of German and French is highly desirable for students in these courses.

BOTANY.

First Year.

(Minor Course.)

1*st Semester.*

Identical with first semester of the course in General Biology, see page 36. ***Major Course.***

2*d Semester.*

General Morphology. Lectures and class exercises.
Three times weekly during the first half of the semester.

Elements of Anatomy. Lectures and class exercises.
Twice weekly.

Systematic Botany (Phanerogams). Lectures and class exercises from the middle to the close of the semester.
Three times weekly.

The work in General Morphology is intended to give the student an accurate acquaintance with the organs of higher plants. The lectures on Systematic Botany will include a description of the principal families, a special treatment of interesting forms and a general review of the entire Phanerogamic group. A minimum of six hours of laboratory work will be required throughout the semester. It will be the object of this laboratory work to give the student a practical knowledge of the relations between various groups and of the basis of classification. Sufficient attention will be given to the elementary work of plant analysis to insure skill and correctness.

Second Year.

1*st Semester.*

Vascular Cryptogams, including Bryophytes. Lectures or class exercises. *Three times weekly during the first half of the semester.*

Physiology, including practical experiments in the laboratory, lectures and class exercises. *Twice weekly.*

Algæ and Fungi, lectures and exercises.
Three times weekly during the second half of the semester.

2*d Semester.*

Algæ and Fungi (continued).
Three times weekly during the first half of the semester.

Physiology (continued). *Twice weekly during the first half of the semester.*

Systematic Botany (Cryptogams), exercises.
Three times weekly during the second half of the semester.

Special treatment of various systems, lectures.
Twice weekly during the second half of the semester.

The work of this year leads downward from the higher, but easily studied plants, to the more intricate and interesting forms, the natural development being followed in reverse order. The student will be shown the relation between vascular cryptogams and the lowest phanerogams, and proceed through the study of typical forms to that of the lowest plant organisms. The last half of the semester is given to a general view of the whole cryptogamic group and the classification of the higher forms, especially ferns, mosses and lichens.

HYGIENE.

In addition to the lectures on Hygiene and Physiology which are included in the minor course in Philosophy, five lectures on practical hygiene will be given at the beginning of each year by Dr. Anna E. Broomall, consulting physician of the college.

Gymnasium. The gymnasium, see page 41, is open for the use of students from 9 A.M. to 10 P.M. daily. Attendance is voluntary. Before admission to the gymnasium each student must be examined by the Directress with reference to physical development, strength of heart and lungs, and hereditary tendencies. The exercises prescribed will be strictly individual, varying according to the physical development of the student; their effect will be tested by half-yearly examinations, and great pains will be taken to prevent any over-exertion.

ART.

A course of lectures on the History of Art will be arranged later, so that it will be possible for every student to attend them before the close of her college course. They will be illustrated by photographs.

There will be instruction in drawing for those students who do not possess the necessary proficiency.

Opportunities for Public Worship. It was the desire of the Founder that the college should be pervaded by a simple and practical Christianity, and an endeavor will be made to promote this end.

In the vicinity of the college there are churches of various denominations and a Friends' Meeting House. There will be daily morning worship in the college.

COLLEGE BUILDINGS.

The college buildings are situated ten miles west of Philadelphia, on the Pennsylvania Railroad, a quarter of a mile from the Bryn Mawr Station; the neighboring country is agreeable and very healthful, and toward the west there is a fine prospect of hills. The college grounds cover forty acres, and include planted lawns and tennis courts; they are surrounded by private villas.

Taylor Hall, a large building of Port Deposit stone, contains the lecture-rooms and laboratories, and the offices of administration. Around this building it is the intention of the Trustees to erect halls or cottages for the accommodation of students; descriptions of Merion Hall and of Radnor Hall are annexed to the present Program. The Gymnasium is the most commodious yet provided for women. It contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather, a room for the Directress, to which is attached another for the examination and record of the physical development of the students, and bath rooms for use after exercise. It is open to the students at all times. This gymnasium has been built in accordance with the system of Dr. Sargent; it is furnished with his complete apparatus, and is under the charge of a Directress who has completed his course of instruction.

Near the college is a large Hotel, accommodating three hundred guests, a Telegraph Office, Adams' Express Office, and United States Money Order Office. There are good roads in every direction. Riding horses and phaetons may be kept at a livery stable near the college.

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Bryn Mawr College.

PROGRAM.

1887-88.

PHILADELPHIA:
Sherman & Co., Printers.
1887.

Board of Trustees.

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Edward Bettle, Jr., Philadelphia.

Academic Appointments.

James E. Rhoads, M.D., *President of the College.*

M. Carey Thomas, Ph.D., *Dean of the Faculty and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877–78; University of Leipsic, 1879–82; Ph.D., University of Zürich, 1882; Sorbonne and the Collége de France, 1883.

Emily L. Gregory, Ph.D., *Associate in Botany.*

L.B., Cornell University, 1881; private student in the botanical laboratories of Professor Wigand, University of Marburg, of Professor Reinke, University of Göttingen, and of Professor Schwendener, University of Berlin, 1881–83; private student in botanical laboratory of Professor Goodale, Harvard University, and in charge of the laboratory work of the Harvard Annex, 1883–84; Teacher of Botany in Smith College, 1884; Ph.D., University of Zürich, 1886.

Edmund B. Wilson, Ph.D., *Professor of Biology.*

Ph.B., Yale College, 1878; Fellow in Biology, Johns Hopkins University, 1879–81; Ph.D., Johns Hopkins University, 1881; Assistant in Biology in the Johns Hopkins University, 1881–82; studied at the Universities of Cambridge and Leipsic, and at the Biological Station, Naples, 1882–83; Lecturer on Biology, Williams College, Mass., 1883–84; Lecturer on Comparative Anatomy and Physiology in the Massachusetts Institute of Technology, 1884–85.

Charlotte Angas Scott, D.Sc., *Associate Professor of Mathematics.*

Lincoln, England. Graduate in Honors, Girton College, Cambridge, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, Cambridge, 1880–84; lectured in connection with Newnham College, 1880–83; D.Sc., University of London, 1885.

Edward Washburn Hopkins, Ph.D., *Associate Professor of Greek, Sanskrit, and Comparative Philology.*

A.B., Columbia College, 1878; Fellow in Literature, Columbia College, 1878–81,; University of Leipsic, 1878–81; University of Berlin, 1880; Ph.D., University of Leipsic, 1881; Sorbonne and the Collége de France, 1881; Assistant in Latin and Instructor in Zend in Columbia College, 1881–84.

Paul Shorey, Ph.D., *Associate in Greek and Latin.*

A.B., Harvard College, 1878, University of Leipsic, 1881–82; University of Bonn, 1882; American School of Classical Studies, Athens, 1882–83; Ph.D., University of Munich, 1884.

Edward H. Keiser, Ph.D., *Associate Professor of Chemistry.*

S.B., Swarthmore College, 1880; Assistant in Chemistry in Swarthmore College, 1880–81; S.M., Swarthmore College, 1881; Fellow in Chemistry, John Hopkins University, 1882–84; Ph.D., Johns Hopkins University, 1884; student at the Royal School of Mines, Freiberg, Saxony, 1884; Assistant in Chemistry in the Johns Hopkins University, 1884–85.

Woodrow Wilson, Ph.D., *Associate Professor of History and Political Science.*

A.B., Princeton College, 1879, and A.M., 1882; studied common, statute, and international law at the University of Virginia, 1879–81; Fellow in History, Johns Hopkins University, 1883–84; Ph.D., Johns Hopkins University, 1886.

J. James Stürzinger, Ph.D., *Associate Professor of Romance Languages.*

Wylen, Switzerland. University of Marburg, 1875–76; University of Leipsic, 1876–77; Sorbonne and the Collége de France, 1877–78; Ph.D., University of Zürich, 1879; studied in London, Cambridge, and Oxford, 1879–81; Privatdocent at the University of Bonn, 1882–85.

HERMANN COLLITZ, PH.D., *Associate Professor of German Literature and Language.*

Bleckede, Hanover, Germany. University of Göttingen, 1875–78; University of Berlin, 1878–81: Ph.D., University of Göttingen, 1878; Privatdocent in the University of Halle, 1885–86.

CHARLES A. PERKINS, PH.D., *Associate (elect) in Physics.**

A.B., Williams College, 1879; Fellow in Physics, Johns Hopkins University, 1883–84, and Ph.D., 1884; Assistant in Physics, Johns Hopkins University, 1884–87.

ROSE CHAMBERLIN, *Instructor in French and German.*

Great Yarmouth, England. Graduate in Honors, Newnham College (Mediæval and Modern Languages Tripos, First Class) University of Cambridge, England, 1886.

FREDERIC S. LEE, PH.D., *Instructor (elect) in Physiology and Histology.**

A.B., St. Lawrence University, 1878, and A.M., 1881; Ph.D., Johns Hopkins University, 1885; studied at the University of Leipsic, 1885–86.

MOSES S. SLAUGHTER, A.M., *Instructor (elect) in Latin.**

A.B., Asbury University, Indiana, 1883, and A.M., 1886; Fellow in Latin, Johns Hopkins University, 1885–87.

ELIZABETH MCCALL, *Librarian.*

Studied under Professor Melvil Dewey, of the Columbia College School of Library Study, 1885.

CAROLYN C. LADD, *Directress of the Gymnasium.*

Studied under Dr. Sargent, 1884–85; student in the Woman's Medical College of Philadelphia.

ANNA E. BROOMALL, M.D., *Consulting Physician of the College.*

Professor in the Woman's Medical College of Philadelphia.

GEORGE S. FULLERTON, A.M., *Lecturer on Psychology and Logic.*

Adjunct Professor of Intellectual and Moral Philosophy in the University of Pennsylvania.

J. RENDEL HARRIS, A.M., *Lecturer on the Bible and Biblical Study.*

Professor of Biblical Languages and Ecclesiastical History in Haverford College; late Associate Professor of New Testament Greek, in the Johns Hopkins University.

* *Lecturer in Physiological Psychology.*

* *Instructor in History.*

* To be appointed at a later date.

Lecturers for the years 1885–86 *and* 1886–87.

WILLIAM HAYES WARD, D.D., *Director of the Wolfe Expedition to Assyria.*

Recent Discoveries in Assyria (one lecture).

HENRY BLACKBURN, *Editor of Academy Notes.*

Art Painting in Water Colors (one lecture).

MELVIL DEWEY, A.M., *Professor of Library Economy, and Chief Librarian of the Columbia College Library.*

How to Use a Library (one lecture).

RODOLFO LANCIANI, *Director of Excavations in Rome for the Italian Government.*

The Palace of the Cæsars; The House of the Vestal Virgins; Recent Discoveries of Works of Art. (Three lectures).

* To take effect in the autumn of 1887.

Lecturers, as far as appointed, for 1887–88.

ARTHUR L. FROTHINGHAM, JR., PH.D., *Professor of Archæology in Princeton College; Editor of the American Journal of Archæology.*

Greek and Roman Architecture (lectures, illustrated with the stereopticon, fortnightly, beginning after the winter recess and continuing till the close of the academic year, see page 26).

Holders of Fellowships.

JANE M. BANCROFT, ... *Fellow in History,* 1885–86.

West Stockbridge, Massachusetts. Ph.B., Syracuse University, 1877; Ph.M., 1880; and Ph.D., 1884; Professor of French Language and Literature, Northwestern University, Evanston, Illinois, 1877–85; student in the University of Zürich, 1886–87.

KITTY AUGUSTA GAGE, ... *Fellow in Greek,* 1885–86.

Wilton, New Hampshire. A.B., Boston University, 1878; A.M., Cornell University, 1885; Teacher of Classics in the State Normal School, New Paltz, New York.

MARY GWINN, ... *Fellow in English,* 1885–87.

Baltimore, Maryland. Studied at the University of Leipsic, 1879–82, and at the University of Zürich, 1882.

LUCY M. SALMON, ... *Fellow in History,* 1886–87.

Fulton, New York. A.B., University of Michigan, 1876, and A.M., 1883; Teacher of History in the Indiana State Normal School, 1883–86.

SARAH E. SATTERTHWAITE, ... *Fellow in Greek,* 1886–87.

Adrian, Michigan. A.B., University of Michigan, 1886.

EFFIE A. SOUTHWORTH, ... *Fellow in Biology,* 1885–86.

North Collins, New York. S.B., University of Michigan, 1885; Fellow in Biology, Bryn Mawr College, 1885–86, and Student-Assistant in the Biological Laboratory, 1886–87.

ANNE A. STEWART, ... *Fellow in Mathematics,* 1886–87.

West Bay, Nova Scotia. Studied in University College, London, 1880–82; S.B., Dalhousie College, Halifax, Nova Scotia, 1886.

ELLA C. WILLIAMS, ... *Fellow in Mathematics,* 1885–86.

Watkins, New York. A.M., University of Michigan, 1880; studied under Professor Schwartz, of Göttingen, nineteen months, 1883–85; in residence at Newnham College during the spring term of 1884; Teacher of Mathematics in Miss Moses' School, 647 Madison Avenue, New York City.

Bryn Mawr College.

Bryn Mawr College, situated at Bryn Mawr, Pennsylvania, ten miles from Philadelphia, was endowed by Dr. Joseph W. Taylor, of Burlington, New Jersey, who proposed to found an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education which are so freely offered to young men." The site of the college was purchased and the buildings were begun during the lifetime of the founder, who died in 1880. In the same year the college was incorporated by the authority of the State of Pennsylvania, and invested with power to confer degrees. A circular of information was issued by the Trustees in 1883. A President and a Dean of the Faculty were elected in the spring of 1884. During the remainder of the year 1884 plans were matured and appointments made in the Faculty; in the autumn a second circular of information was issued, and an office at which to receive applications was opened in Philadelphia. The courtesy of the presiding officers and instructors of existing universities and colleges facilitated an acquaintance with the prevalent collegiate systems; and the domestic organization of the women's colleges, Vassar, Smith, and Wellesley, received careful consideration. To the Johns Hopkins University acknowledgment is especially due, since from it has been borrowed the system of major and minor electives in fixed combination. In the spring of 1885 the first program was issued, and the college opened for instruction in the following autumn with forty-four students.

College Calendar.

The present academic year closes 6th mo., June, 10th, 1887.

The lectures and class-work of the third academic year will begin 10th mo., October, 3rd, 1887, at 9 o'clock, and will end 6th mo., June, 8th, 1888, at 3 o'clock.

Examinations for matriculation will be held during the week preceding the opening of each academic year, and also during the last week of each academic year.

In the year 1887–8 the examinations will be held in the following order:

6th mo., June, 1887.		*9th mo., September*, 1887.	
7.		28.	
Algebra,	9—12	Algebra,	9—12
Geometry,	3—6	Geometry,	3—6
8.		29.	
Arithmetic,	9—10½	Arithmetic,	9—10½
English,	10½—12½	English,	10½—12½
Greek,	3—6	Greek,	3—6
Elements of some Science,	3—5	Elements of some Science,	3—5
9.		30.	
Latin,	9—12	Latin,	9—12
Physical Geography,	2—3	Physical Geography,	2—3
French,	3—6	French,	3—6
10.		*October* 1.	
History,	9—11	History,	9—11
Solid Geometry and Trigonometry,	10—1	Solid Geometry and Trigonometry,	10—1
German,	3—6	German,	3—6

There will be a winter recess from 12th mo., December, 22d, to 1st mo., January, 4th, inclusive; and a spring recess from 3d mo., March, 30th, to 4th mo., April, 6th, inclusive.

The first semester will end 2d mo., February, 10th; half-yearly examinations will be held during the last week of the semester, and, instead of the usual recess at Washington's birthday, there will be a recess of two days before the beginning of the next semester, 2d mo., February, 15th.

Admission Blank forms of application for admission should be obtained from the President.

Three classes of persons will be admitted to the lectures and class-work of the college; namely, graduate students, undergraduate students, and hearers.

Graduate Students.

Graduate students must have presented a diploma from some college of acknowledged standing. They may pursue the advanced or graduate courses offered by the college, although the instructors in the several departments may require of them certain introductory or auxiliary studies; they are. moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations, from the instructors. Their needs will be considered in the arrangement of new courses of lectures.

Fellows.

The most distinguished place among graduate students will be held by the Fellows. Five Fellowships are awarded annually —one in Greek, one in English. one in Mathematics, one in History and one in Biology. They are awarded as an honor, and are intended to be an indorsement of previous attainments; they entitle the holder to free tuition, a furnished room in the college buildings, and the sum of three hundred and fifty dollars yearly.* They are open to graduates of Bryn Mawr College, or of any other college of good standing. No one may compete that has not a college degree or a certificate of prolonged study under well-known instructors; and, generally speaking, the Fellowship will be given to the candidate that has studied longest or whose work affords the best promise of future success. All applications should be made as early as possible, and must be made by the 15th of April preceding the year for which the Fellowship is desired. Blank forms will be forwarded to the applicant. A definite answer will be given within four weeks from the last date fixed for application. The holder of a Fellowship is expected to show, by the presentation of a thesis, or in some other manner, that her studies have not been without result. All Fellows may study for the degree of Doctor of Philosophy, the Fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts.

Undergraduate Students.

Undergraduate students must have fulfilled the requirements for matriculation. The studies leading to the degree of Bachelor of Arts are stated on page 14. Those students, that do not wish to study for a degree, are required to enrol themselves as special students; they will, nevertheless, in the event of a change of plan be credited with such of their studies as may have coincided with the studies leading to a degree. Attention is called

Special Students.

* Board will be charged at the regular college rates of $150 for the scholastic year.

to the fact that the Group system enables all candidates for a degree to specialize in one or more subjects.

Hearers. Hearers will be excused from passing the matriculation examination; but they will be strictly distinguished from matriculates, and will not be entitled to reside in the college. They must be women of at least twenty-five years of age, and must furnish proof that they have at some time pursued the studies included in the matriculation examination. They must satisfy the several instructors that they can profit by the courses that they desire to follow, and their admission to recitations, examinations, and laboratory exercises, will depend on the express consent of the instructor in charge. Hearers differ moreover from special students in that they are not recognized by the College, and can receive only such certificates of collegiate study as may be given them by the several instructors. They cannot receive degrees.

Examination for Matriculation. The examination for Matriculation will also be open to those who wish to take it as a test of proficiency in elementary studies, but have no intention of entering the college.

Candidates may divide the examination between two successive years; if, however, more than one calendar year and the summer recess elapse between the two parts of the examination, the first part of the examination must be repeated.

Every candidate for matriculation that does not present a certificate of honorable dismissal from some college or university of acknowledged standing, must be examined in the following subjects, omitting, should she desire to do so, German or French, or Greek (any one of them), but not Latin, and in no case presenting for examination less than three languages, exclusive of English :*

Mathematics. (1) *Arithmetic.* Since many complicated parts of arithmetic are simplified and explained by the study of the higher mathematics, candidates are advised to offer only the following portions of school-arithmetic: Fundamental

* But candidates that have passed the Harvard University examinations for women held in Cambridge, New York, Philadelphia, and Cincinnati will be admitted, whenever the examination has covered the same or equal ground in the subjects required for matriculation in the college. The certificate of honorable dismissal from another college of acknowledged standing will be accepted under similar limitations. In no other cases will certificates be accepted.

Rules; Fractions; Decimals; Discount; Percentage; Simple and Compound Interest; Proportion; Compound Numbers and the Metric System, all tables necessary to the student being given; Square Root. (2) *Algebra*, through Quadratic Equations; Ratio; Proportion; Variation; Arithmetical and Geometrical Progression. (3) *Plane Geometry*.

All candidates that do not in addition to the above present *Solid Geometry* and *Trigonometry* must pursue these branches in the college and pass an examination in them before receiving a degree. It is especially recommended that those intending to elect mathematical courses should pass the entire matriculation examination in mathematics. These candidates are advised to confine themselves to Algebra; Plane Geometry of the straight line and the circle; Solid Geometry and Trigonometry. More benefit will be derived from a thorough acquaintance with the pure geometrical methods, than from a little knowledge of Analytical Geometry.

Note. Students whose matriculation examination has included either Solid Geometry, or Trigonometry, or both, will be credited with the time which others must subsequently spend upon these studies.

Latin. (1) *Grammar and Composition.* There will be questions testing the candidate's practical knowledge of grammar, including prosody, and translation of English into Latin. (2) *Cæsar*, Gallic War, Books I.–IV. *Cicero*, seven orations, including the four against Catiline. (3) *Virgil*, Æneid, Books I.–VI. (or the Eclogues and five books of the Æneid).

Note 1. Equivalents will be accepted to some extent, but all candidates must have read (*a*) Cicero, at least four orations, (*b*) Virgil, at least three books of the Æneid.

Note 2. The so-called Roman method of pronunciation, as explained in Allen and Greenough's Latin Grammar, is recommended.

Note 3. As many schools are introducing the "natural method" as a substitute for thorough grammatical training, attention is called to the fact that special stress will be laid on an accurate and ready knowledge of grammatical forms. A knowledge of paradigms and parts of irregular verbs will be insisted upon.

Note 4. The examination in Latin may be divided in the following manner only: (*a*) Grammar, Composition, Cæsar and Cicero; (*b*) Virgil and sight reading.

Greek. (1) *Grammar and Composition.* Simple Greek Composition (White's First Lessons in Greek and Jones's Exercises in Greek Prose, or equivalents). (2) *Xenophon*, Anabasis, Books I.–IV. (3) *Iliad*, Books I.–III., with questions on grammar suggested by the text. Translation at sight of easy passages from Xenophon and the Iliad, with due allowance for unusual words.

Note 1. Equivalents will be accepted to some extent, but all candidates must have read (*a*) Homer, at least two books of the Iliad, (*b*) Xenophon, at least two books of the Anabasis or Memorabilia.

Note 2. The examination in Greek may be divided in the following manner only: (*a*) Grammar, Composition, and Xenophon; (*b*) Iliad and sight reading.

French. There will be three examinations in French, one to test the candidate's knowledge of pronunciation and ordinary grammatical forms, the other two her power to read at sight ordinary French prose and verse.

Note 1. For the examination in reading no texts are assigned, the examination being intended to test the candidate's ability to read any ordinary French whatsoever. Candidates preparing for these examinations are advised to acquire as large a vocabulary as possible.

Note 2. The examination in French cannot be divided.

German. The examination in German will be precisely similar to that in French, and will test the candidate's pronunciation, knowledge of ordinary grammatical forms, and ability to read ordinary German at sight.

Note 1. The examination in German cannot be divided.

Note 2. The candidate may omit one of the three languages, Greek, French or German, selecting Greek and French, or Greek and German, or French and German.

History. The outlines of the History of England and the United States; *or* the outlines of the History of Greece and Rome.

Note 1. Students that expect to enter the classical courses are advised to offer the outlines of Greek and Roman History. All others are advised to offer the outlines of English and United States History.

Note 2. Johnston's History of the United States, Thompson's History of England, Dr. Smith's Shorter History of Greece, and Leighton's History of Rome are recommended.

English. Each candidate for matriculation will be required to correct specimens of bad English, and to write a short composition upon a subject assigned by the examiner. The composition must be correct in spelling, grammar, punctuation, expression and general arrangement.

In 1887 candidates should be familiar with the following works, from one of which the subject will be taken: *Sir Roger de Coverley* (his character as described in the Spectator, papers 2, 6, 36, 106–118, 122, and so forth); *Carlyle*, Heroes and Hero Worship; *Matthew Arnold*, On Translating Homer; *Keats*, Hyperion; *Wordsworth*, Laodamia; *Tennyson*, Tithonus, Ulysses and Tiresias.

In 1888 a knowledge of *Abbott's* "How to write Clearly" will be expected; candidates should also be familiar with *Burke*, Reflections on the French Revolution; *Landor*, The Citation and Examination of William Shakespeare; *Chaucer*, The Knight's Tale.

Note. A critical study of the works is not required.

Natural Science. All candidates must pass an examination in the elements of *Physical Geography.*

Note. Guyot's Physical Geography is recommended.

Candidates that omit Greek must also pass an examination in the elements of *Physics*, *Chemistry*, *Botany* or *Physiology*.

Note. Balfour Stewart's Primer of Physics, Roscoe's Primer of Chemistry, Gray's "How Plants Grow," and Foster's Primer of Physiology are strongly recommended.

Tabular Statement of Requirements for Matriculation.

The following tabular statement of the requirements for matriculation is appended for the convenience of the candidate:

All candidates for matriculation *must* be examined in the following three groups:

I.	II.	III.
Mathematics { Arithmetic, 1. Algebra, 1. Plane Geometry, 1.	*Latin* { Grammar and Composition, Cæsar and Cicero, } 2. Virgil and sight reading, 1.	*History*, 1. *English*, 1. *Science*, 1.

All candidates for matriculation *must* be examined in one of the following groups:

IV.		IV.		IV.
Greek { Gram. and Comp., Xenophon, } 2. Iliad and sight reading, 1.		*Greek* { Gram. and Comp., Xenophon, } 2. Iliad and sight reading, 1.		*French* { Grammar, Prose, Poetry, } 3.
and		*and*		*and*
French { Grammar, Prose, Poetry, } 3.	*or*	*German* { Grammar, Prose, Poetry, } 3.	*or*	*German* { Grammar, Prose, Poetry, } 3.

The figures attached to the required subjects show the sections into which the examination is divided, the figure 1, for example, shows that the subject is regarded as one section, and so forth. Where a bracket precedes the figure, the subjects enclosed by the bracket cannot be separated in the examination. Should the candidates pass in fewer than four sections in the first division of the examination, the entire examination must be repeated.

The candidate *may* be examined in the following subjects, and if not examined, must pursue them in college:

Advanced Mathematics { Solid Geometry, Plane Trigonometry

A fourth language, { *Greek* (as above) *or* *French* (as above) *or* *German* (as above)

Remarks on Examination for Matriculation

All subjects potentially included in the examination for admission are regarded by the college as preparatory and non-collegiate. The college course of instruction in mathematics, for example, does not include but presupposes trigonometry; the courses in French and German presuppose a reading knowledge of these languages.

It is therefore to the interest of every student to offer, at entrance, advanced mathematics, and if possible all four languages; remembering that even to fail in such of these examinations as are not strictly obligatory, will not affect the candidate's collegiate standing, and that to pass them successfully would

leave her nearly free for elective study under the Group system and for true collegiate work. Great pains have been taken in the organization of the collegiate courses; and it is not desirable that the time of students within the college should be needlessly withdrawn from these and spent upon preparatory work.

Studies Leading to the Degree of Bachelor of Arts.

No student will be graduated who does not at the time of graduation possess a reading knowledge of Latin, French and German and some acquaintance with Greek. The College provides beginners' classes, five times weekly throughout one year, for those students who in the examination for matriculation may have omitted Greek, French or German; but attendance on these classes is not obligatory, the student being free to make good her deficiencies by private reading.

The following courses of study must be pursued by every candidate for the degree of Bachelor of Arts.

Required Studies.

English, see page 27.

Science, or *Science and History*, *i. e.*, any one of the major courses, or two of the following minor courses in Science: Physics, see page 39, Chemistry, see page 40, Biology, with special reference either to plant or animal life, see page 42; or else any one of the minor courses, together with one of the following courses in History: Ancient History, see page 34, Modern History, see page 35.

Philosophy, see page 33.

Group.

Two Major Courses, of two years each, constituting one of the following "Groups:" Any language with any language, see pp. 23–33; Mathematics with Physics, see pp. 37–40; or Mathematics with Greek or Latin, see pp. 23-26, 37; any science with any science, see pp. 39-45; History with Political Science, see pp. 34-36.

Free Electives.

Free Electives, five hours weekly for a year and a half, to be chosen by the student. It should be observed that a single study may be taken as a Free Elective, without electing the group that includes it. Students wishing to combine Physics with either Chemistry or Biology must take a year of Mathematics as a Free Elective.

The student may consult the Dean of the Faculty in regard to the details and best arrangement of the various studies.

The students are not divided into the traditional college classes, nor is there any time set for graduation; in order to pursue a wider course of reading in connection with single sub-

jects, or to attend a greater variety of lectures, the ablest students may choose to defer graduation, and, on the other hand, the usual period of collegiate study may be abridged; personal considerations only will determine the time spent in completing the studies required for a degree. Nevertheless, these requirements constitute strictly a Four Years' Course; that is to say, if the usual time given to lectures and class-work be computed at fifteen hours weekly, a student that passed the ordinary matriculation examination, and availed herself of the preliminary courses of the college on the subjects which that examination did not include, would in all cases require precisely four years.

For a more detailed explanation of the Group system, see page 18.

The Bryn Mawr European Fellowship.

The Bryn Mawr European Fellowship will be awarded annually to a graduate of Bryn Mawr College, on the ground of excellence in scholarship. The holder will receive the sum of five hundred dollars, applicable to the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the college.

Studies Leading to a Second Degree.

Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may, at their discretion, enrol themselves as candidates for the degrees of Doctor of Philosophy and Master of Arts. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

The Degree of Doctor of Philosophy.

All candidates for the degree of Doctor of Philosophy and Master of Arts, must pursue for three years, after having received their first degree, a course of liberal (non-professional) study at some college or university approved by the Faculty, and spend at least two of these years at Bryn Mawr College. They must be examined in two, and may at their discretion be examined in three subjects (the examination being of equal difficulty in either case); and must present a satisfactory dissertation on

some topic included in their First, or Principal Subject. They may be required to pursue certain auxiliary studies in connection with the subjects that they have elected; and the degree of Doctor of Philosophy, like that of Bachelor of Arts, will be given to no one who cannot read Latin, French, and German, or who is wholly unacquainted with Greek. The dissertation must be printed. The degree of Doctor of Philosophy will in no case be conferred by the college as an honorary degree.

The Degree of Master of Arts.

Candidates for a separate degree of Master of Arts, which will be conferred only on graduates of Bryn Mawr College, must reside at the college for at least one year after graduation, and pursue and pass an examination on a course of liberal study approved by the Faculty.

Residence. Residence in the college is not obligatory. During the years 1885-87 students living in Philadelphia or in the neighborhood of Bryn Mawr have attended the daily lectures and class work of the college; others, finding it inconvenient to return home every day, have resided in the college for five days of every week.

The college buildings intended for residence contain single rooms and sets of rooms. The houses will accommodate about fifty students, and each house will be under the care of a lady who will reside in the building. There will be no common refectory, nor any inter-dependence between the houses. Compare the accompanying descriptions of Merion Hall and of Radnor Hall, which the other houses will resemble in the essential parts of their internal arrangement, such as furniture, heating, and light; compare also the general account of the buildings on page 46.

Expenses. The charge for tuition is one hundred dollars a year, irrespective of the number of courses attended, or of the actual time of attendance. It is the same for undergraduate students, graduate students, and hearers. An additional charge of fifteen dollars a year is made for materials, in every laboratory course.

A special exception will be made in favor of non-resident medical students and physicians, who will be charged for a single course in chemistry or biology fifty dollars, and for two courses one hundred dollars, the laboratory charges being the same for them as for other students. A course is held to be five hours weekly of lectures and class-work throughout the year.

The charge for board and residence will be two hundred and fifty dollars a year for each student occupying a single room, and three hundred dollars for each student occupying, together with another student, a set of three rooms. In special cases two students may be allowed to share a single room, thus reducing the expense of board and residence to two hundred dollars. Students that remain at the college during the winter and spring vacations will be charged seven dollars, eight and a half dollars (or in special cases five and a half dollars) weekly, according to the rooms occupied. The charge for a student occupying a bedroom and private study will be four hundred dollars, and in vacations ten dollars a week.

Note. The charge for board and residence includes all expense of service, heating and light, except open fires and washing. There are open fire-places in nearly all the studies, but the rooms will be sufficiently heated by steam. A fixed annual charge is made for washing (see the descriptions of Merion Hall and Radnor Hall).

The charge for tuition is accordingly $100 a year, payable in advance.

The charge for board and residence is $250, $300 (or in special cases $200 and $400) a year; one-half payable half-yearly in advance.

The charge for board, residence, and tuition is, therefore, $350 and $400 (or in special cases $300 and $500) a year.

Note. A STUDENT'S EDUCATIONAL FUND has been established for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed will be distributed by the college in the form of *partial* aid, and in most cases as a *loan*. It will be applied to the assistance of those students only who have attended courses in the college for at least one year.

Scholarships.

Three partial scholarships of $200 each will be open to members of the Society of Friends that are unable to pay the full charge for tuition and residence. When there are more than three applicants the candidates will be selected by competitive examination, and in no case can the scholarship be held by any one who has not passed the matriculation examination with credit. These scholarships will be for one year only, but may be renewed until graduation, when the progress of the student is satisfactory to the Faculty.

INSTRUCTION.

Libraries.

The College Library will be as far as possible a library for special study, and is open for the use of the students from eight A.M. to ten P.M. every day. The most important scientific, literary, and philological reviews are taken, and the sum of three

thousand dollars is expended yearly, under the direction of the heads of the several collegiate departments. The library has at present 4200 bound volumes, and is catalogued according to the Dewey system.

In Philadelphia there are the following important libraries:

The *Philadelphia Library*, which contains about 145,000 volumes. The library will at all times be open to the students for consultation. Subscription, $12.00 a year for eight volumes, or $10 for nine months.

The *Mercantile Library*, which contains 150,000 volumes. Subscription, $6.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains 30,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

Laboratories. The chemical laboratory consists of a lecture room, a working laboratory, preparation and balance rooms and a chemical library. The supply of apparatus and chemicals has been carefully selected for the purposes of instruction and research, and is increasing from year to year. The chemical library contains beside necessary treatises and reference books several complete sets of chemical journals. A similar suite of five rooms is appropriated to the biological department; it includes two laboratories, one of which is exclusively botanical. The biological laboratories are equipped with the best (Zeiss) microscopes, microtomes, etc., and are supplied with a small but well-selected set of apparatus for the study of experimental physiology. A temporary building containing a physical laboratory and lecture-room will be furnished with apparatus and opened in the autumn of 1887. The chemical, biological and physical laboratories are open for students throughout the day.

The Group System. It is much to be desired that all undergraduate students should enrol themselves as candidates for the degree of Bachelor of Arts, and, therefore, that they should understand the precise scope and nature of the studies leading to that degree, and the significance of the Group system. A proper understanding of the Group system is, moreover, essential in order to comprehend the distribution and arrangement of the courses of instruction.

In all departments as yet organized there is a course of five hours a week for two years, called a Major Course. Whenever one year of this course is of such a nature that it can be taken

separately, it is marked as a Minor Course. It is required of every candidate for a degree to take two such major courses as shall be homogeneous, or shall complete each other, and major courses which fulfil this condition are designated as Groups. It is meant that the student, under this system, should lay the foundations of a specialist's knowledge; and the Required Studies, namely, English, philosophy, and science, or history and science, are intended in part to supplement the Group, and in part to ensure a more liberal training than could be achieved did every student combine elective studies at pleasure. The two years' required course in English includes a general introduction into the study of language. English literature will be treated with steady reference to the comparative history of literature; and the entire course will be so planned as to give unity and domestic application to the pursuits of students of philology, and to acquaint students of science or of history, in so far as this is possible in a special course, with the results, scope, and methods of the study of language and literature. The required two years in science, or in science and history, permit the student of chemistry and biology to pursue both branches of the biological course, or to take a major course in physics; and they ensure to the student of history and of language, for one year at least, the same kind of instruction and discipline as is received by the scientific student. The one year's course in philosophy is a general introduction into the study of the laws, conditions, and history of thought.

A tabular statement of the courses leading to a degree is prefixed for the sake of clearness: ***Tabular Statement.***

*Minor Courses (One Year Each).**

1. and 2.	3.	4.	5.	†[6.]	†[7.]
English. *Two Courses.*	Philosophy.	Science, Physics, or Chemistry, or Biology.	Science or History.	French, or German, or Greek.	Solid Geometry and Trigonometry.

* Except 7. (*One half Year.*)

† See page 14, under "Studies leading to the degree of Bachelor of Arts."

Two Major Courses (Two Years Each).

Constituting any one of the following groups:

I.	II.	III.	IV.	V.
Any language with any language.	Any science with any science.	Mathematics with Greek or Latin.	Mathematics with Physics.	History with Political Science.

Free Electives.

Five hours weekly for a year and a half.

The "Minor Courses" in the above table are known as the Required Studies; the "Two Major Courses" as the Group. All studies whatsoever fall under one of these heads, Required Studies, Group, or Free Electives.

The following combinations of studies are suggested as specimens of the combinations which may be made by students who are candidates for a degree, yet wish to specialize.

Classics. *As Required Studies*, English, Philosophy, Science (Physics, Chemistry, or Biology animal or vegetable), Ancient History, [French or German]. *As a Group*, Greek and Latin. *As Free Electives*, advanced Greek and Latin, with or without Sanskrit.

Modern Languages (other than English). *As Required Studies*, English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History, [Greek, French, or German]. *As a Group*, French and German, or Latin and French. *As Free Electives*, Spanish or Italian.

English. *As Required Studies*, English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History, [Greek, French, or German]. *As a Group*, French and English, or Greek and English. *As Free Electives*, German or Latin.

Mathematics (with Latin). *As Required Studies*, English, Philosophy, Physics, Ancient History, [Greek, French, or German]. *As a Group*, Mathematics and Latin. *As Free Electives*, Advanced Mathematics.

Mathematics (with Physics). *As Required Studies*, English, Philosophy, Chemistry, Biology, [Greek, French, or German]. *As a Group* Mathematics and Physics. *As Free Electives*, Advanced Mathematics, or Physics.

History. *As Required Studies*, English, Philosophy, any Science, Italian, or Spanish, [Greek, French, or German]. *As a*

Group, History and Political Science. *As Free Electives*, History of German, or of French, Literature.

Science. *As Required Studies*, English, Philosophy, Physics, Botany, [Greek, French, or German]. *As a Group*, Chemistry and Biology (animal). *As Free Electives*, Botany, or Physics (2nd year).

The following combinations might be adopted by those who wish to pursue a major course in History or Science, yet not to elect a historical or scientific group.

I. *As Required Studies*, English, Philosophy, any Science, Ancient History, [Greek, French, or German]. *As a Group*, any Language with any Language, or Chemistry with Biology or Physics. *As Free Electives*, Modern History.

II. *As Required Studies*, English, Philosophy, Physics, Chemistry, [Greek, French, or German]. *As a Group*, any Language with any Language. *As Free Electives*, second year in Chemistry, or one year in Biology (animal or vegetable).

Since the time of graduation is determined only by the completion of the prescribed course, there is an entire freedom from over-pressure. All matriculated students may receive the degree of Bachelor of Arts when the prescribed course of study has been satisfactorily completed. On the other hand, as is shown by the recognition of special students, it is not required of any one to apply for a degree; and no degree will be conferred, unless the course have been completed with credit.

Lectures.

It is the object of the lectures to give a clear and succinct statement of facts and principles; to enumerate and criticise with frankness hand-books, authorities, and editions; to touch upon minor or far-lying points with such distinctness as may enable the student to investigate them intelligently at some future day; to bring the student's knowledge down to date, and to inform her, step by step, what things have been definitely ascertained, and what things remain to be investigated. It is intended that the notes taken on these lectures, in addition to their immediate practical use, shall be of lasting value for reference, and be the starting-point, or at least the schedule, of studies to be undertaken subsequently. Every isolated student knows how difficult it is to be initiated into the modern scholastic movement otherwise than orally; and, therefore, in addition to the lectures, the several instructors will appoint certain hours in which the students may consult them freely.

The lectures will be accompanied by class-work, and by frequent examinations; they will be strictly special, not popular.

The Professors or Associates appointed are the recognized heads of their departments, and only such instructors have been chosen as are qualified to direct both graduate and undergraduate work.

Courses of Study. There will be offered each year a minor course in Philosophy, and major, or two year, courses of five hours instruction weekly in the following subjects: Greek, Latin, English, German, French, Italian, Spanish, Mathematics, Physics, Chemistry, both branches of Biology, History, and Political Science.

Graduate courses are offered in Sanskrit and Indo-European Philology, Greek, Romance Languages, Teutonic Languages, English, Political Science, Mathematics, Chemistry and Biology.

Courses in Language and Literature. The courses in language and literature are meant first of all to be complete in themselves, and extensive enough to meet the needs of special students; and secondly to facilitate the study of comparative philology or of comparative literature. Whenever it has been practicable, as in all the modern languages, one-half of the major course has been devoted to strictly linguistic studies, and the other half to the history of literature. In the major courses in Greek and Latin, the customary text-reading will be supplemented by lectures on the history of literature; the advanced course in Greek will ultimately be constructed on the model of a major course, one year being devoted to comparative philology and Sanskrit, and one to literary studies and the reading of difficult texts. Courses of parallel reading will be required of all students of language and literature, precisely as laboratory work is required of the students of chemistry or biology; these courses are intended to acquaint the students with the works of numerous authors, and it is especially hoped that students of Greek and Latin will by this means accustom themselves to read these languages constantly, and without assistance.

The courses in ancient and modern languages will be of equal difficulty, and will be placed on a footing of equality. The traditional separation between ancient and modern languages has been disregarded, because, although strictly classical students may always be inclined to combine Greek and Latin, there is, nevertheless, no modern literature of which the study

may not fitly be preceded, or supplemented, by the study of Latin or Greek.

Courses in Science.

The attention of medical students or those looking forward to the study of medicine may be called to the facilities offered by the scientific laboratories. The value of a practical knowledge of biology and chemistry as preliminary or accessory to the professional study of medicine is generally recognized. Through the courtesy of the Woman's Medical College of Pennsylvania, allowance will be made in their professional course for work carried on at Bryn Mawr in the scientific laboratories. Students of Bryn Mawr College that have completed major courses in chemistry and biology will be released from the first year's examination in the Medical College and from laboratory practice in chemistry and biology.

GREEK.

Beginners' Course.

A course of five hours weekly throughout the year will be provided for those students whose examination for matriculation did not include Greek. This course is required of candidates for the degree of Bachelor of Arts. Students that desire to continue the study of Greek are expected to read more Greek than is required of the other students, in order that in the ensuing year they may pass the entrance examination and enter upon the first year of the major course.

First Year.

(Minor Course.)

Major Course.

1*st Semester.*

Plato, *Apology;* Odyssey, *Selections.*	*Four times weekly.*
Exercises in Greek Prose Composition.	*Once weekly.*
Private Reading, Xenophon, *Memorabilia, two books.*	

2*nd Semester.*

Iliad, *Selections;* Euripides, *Alcestis.*	*Four times weekly.*
Exercises in Greek Prose Composition.	*Once weekly.*
Private Reading, Sophocles, *Antigone.*	

Second Year.

1*st Semester.*

Lectures on the History of Greek Poetry.	*Twice weekly.*
Herodotus, *Selections.*	*Twice weekly.*
Æschylus, *Agamemnon.*	*Once weekly*
Private Reading, Sophocles, *Electra.*	

2nd Semester.

Lectures on the History of Greek Prose. *Twice weekly.*
Thucydides, *Selections.* *Twice weekly.*
Lectures on Greek Grammar. *Once weekly.*
Private Reading, Isocrates, *Panegyricus.*

The usual second year's work of the Major Course may be divided so as to cover a period of two years, but the lectures on Literature and Grammar must be taken.

Examinations on the courses of private reading will be held at the end of each semester.

Group. Greek with any language, or with Mathematics.

Post Major Courses.

Pindar, *Selections.* *Once weekly.*
Aristophanes, *Birds.* *Once weekly.*
Plato, *Republic*, rapid reading of selections with an introduction to the study of Greek ethics. *Once weekly.*
Lectures on Sanskrit Literature. *Once weekly.*
Sanskrit Grammar, beginners' course. *Once weekly.*

Graduate Courses.

An advanced course in Greek is provided for graduate students. This advanced course will be divided into two courses of one year each, one philological, comprising Sanskrit and Comparative Philology, and one critical and literary consisting of the reading of difficult texts and of special studies in the history of literature. Either course may be taken separately. These courses will be varied from year to year, according to the needs of the students and at the discretion of the instructor, so that graduate students may attend them for more than two semesters.

In 1887–88, the advanced course will be as follows :

1st Semester.

(*a*) Lectures on Greek Philology. *Twice weekly.*
Sanskrit Grammar with selections from Lanman's Reader. *Once weekly.*
(*b*) Drama, *Selections.* *Twice weekly.*

or

(*a*) Lectures on Greek Philology. *Once weekly.*
Attic Orators (*Seminary*). *Twice weekly.*
(*b*) as above. *Twice weekly.*

2nd Semester.

(*a*) Mahābhārata, *Selections.* — *Twice weekly.*
(*b*) Lectures on Greek drama with selections. — *Once weekly.*
Greek Philosophy, *Plato and Aristotle, Selections.* — *Twice weekly.*
or
(*a*) Comparative Philology. — *Once weekly.*
Thucydides (*Seminary*). — *Once weekly.*
(*b*) as above. — *Three times weekly.*

LATIN.

The major course in Latin is as follows: ***Major Course.***

First Year.

(*Minor Course.*)

1st Semester.

Horace, *Selections* (may be taken as a Free Elective). — *Twice weekly.*
Cicero, *De Amicitia and De Officiis, Selections.* — *Twice weekly.*
Latin Prose Composition. — *Once weekly.*
Private Reading, Sallust, *Jugurtha.*

2nd Semester.

Horace (continued): Virgil, *Selections*, with lectures on the poetry of the Augustan age (may be taken as a Free Elective). — *Twice weekly.*
Livy, *book XXI.* — *Twice weekly.*
Latin Prose Composition. — *Once weekly.*
Private Reading, *Æneid, VII.–XII.* (*Selections*).

Second Year.

1st Semester.

Lectures on Latin Literature. — *Once weekly.*
Juvenal, *Selections.* — *Once weekly.*
Tacitus, *Annals, Selections.* — *Twice weekly.*
Latin Prose Composition. — *Once weekly.*
Private Reading, Pliny, *Selected letters.*

2nd Semester.

Lectures on Latin Literature. — *Once weekly.*
Catullus and Lucretius (*Selections*). — *Once weekly.*
Terence, *Adelphi and Andria.* — *Twice weekly.*
Lectures on Latin Grammar. — *Once weekly.*
Private reading, Lucretius, *Selections.*

The usual second year's work of the Major Course may be divided so as to cover a period of two years, but the lectures on Literature and Grammar must be taken.

Examinations on the courses in private reading will be held at the close of each semester.

Group. Latin with any language, or with Mathematics. Especially recommended, Latin and Greek; Latin and French; Latin and Spanish or Italian.

Post Major Courses. The courses in Juvenal, Catullus, and Terence will be open to students that have completed the Major Course in Latin but have not read these authors.

The following additional courses are offered:

1*st Semester.*

Advanced course in Latin Literature (Lectures and reports on special topics). *Twice weekly.*

This course is open to those students only who have completed the Minor Course in Greek.

Cicero, *Letters.* *Twice weekly.*

2*nd Semester.*

Advanced course in Latin Literature (continued). *Twice weekly.*

Plautus, *Captivi.* *Once weekly.*

ART.

In the year 1887–88 Professor Arthur L. Frothingham, Jr., of Princeton College, will deliver a course of lectures on Greek and Roman Architecture. These lectures will be delivered fortnightly throughout the last five months of the year, and will be illustrated by the stereopticon; they will begin with a cursory glance at the architecture of the earliest civilization of Egypt, Babylonia, and Assyria. Greek architecture will be studied in the following order: Prehistoric and Homeric architecture; origin, history, characteristics and principal monuments of the Doric order;—of the Ionic; polychromy in Greek architecture and sculpture; sculpture as an accessory to architecture. A survey of the architecture of the previous nationalities, Etruscan and non-Etruscan, Umbrian or Pelasgic, will precede that of the architecture of Rome in the kingly and republican periods and under the Empire, and of Roman architecture in the East.

ENGLISH.

Required Course.

The required course consists of lectures on literature and language, in which the history of English literature will be regarded as far as possible from the point of view of the historian of European literature generally (see page 19), and courses of private reading which are meant to familiarize the student with classical English authors. There will be frequent examinations on the private reading. The student is advised to attend the course during her first year in college.

First Year.

1st Semester.

Lectures on the study of language.
Five times weekly during the first two months.

Reading of simple Anglo-Saxon prose.
Once weekly during the remainder of semester.

Lectures on the history of Anglo-Saxon literature; with an introduction into the study of early Germanic literature and mythology. *Four times weekly during the remainder of the semester.*

2nd Semester.

Lectures on the history of English literature to the time of Chaucer, inclusive, with an introduction into the study of French mediæval literature. *Four times weekly.*

Reading of early English Texts. *Once weekly.*

Second Year.

1st Semester.

Lectures on the history of English literature from Chaucer to the Restoration, exclusive; with a short account of Italian literature till the time of Metastasio, inclusive. *Four times weekly.*

English Prose. *Once weekly.*

2nd Semester.

Lectures on the history of English literature from the Restoration to the present time; with a short account of the literature of France in the 17th and 18th centuries. *Four times weekly.*

English Prose. *Once weekly.*

Parallel courses of private reading, in connection with the study of English Prose, as well as with the lectures, will be arranged for each semester. The hour devoted to English Prose is an hour set apart for occasional lectures on style, and on the right conception and treatment of such themes as may be assigned.

The courses of the first and second year will be given alternately, and may be attended in reverse order.

Major Course. The Major Course in English, which may be elected in combination with the Major Course in any other language, presupposes as much information as is contained in the Required Course. In that it has been preceded by two years' study, it differs slightly from the other Major Courses of the College, and is intended for graduate students or for those undergraduate students who are exceptionally anxious to specialize in English. Either year may be taken separately by students that have completed the Required Course.

First Year.

(*Language—Minor Course.*)

1*st Semester.*

Major Course. Historical Study of the English Language. Reading of Gothic and Anglo-Saxon Texts. *Five times weekly.*

2*nd Semester.*

Historical Study of the English Language (continued), with special reference to the dialects of Early English. Reading of Early English Texts. *Five times weekly.*

Second Year.

(*Literature—Minor Course.*)

Special study of particular authors or periods, the choice of subjects being regulated in part by the needs of the students. The year is essentially a year of seminary work, during which the student will be required to consult all available authorities on the subjects assigned, and to state in writing the result of her investigations. *Four times weekly.*

Modern English Grammar and Syntax. *Once weekly.*

Group. English with any language.

GERMAN.

Beginners' Class. A class for beginners in German, five hours weekly throughout the year, will be provided, in order that those students whose matriculation examination did not include German may with less difficulty obtain the reading knowledge of it that they must possess before receiving a degree. By great diligence such stu-

dents may, it is hoped, acquire sufficient knowledge to be admitted, should they desire it, into the Major Course in German.

Conversation Class.

A class for German conversation will meet, in the afternoon or evening, three times weekly throughout the year. It may be attended by any student that has passed the matriculation examination in German.

Major Course.

The Major Course presupposes as much knowledge as is implied by the matriculation examination in this subject. It includes the study of Gothic. Either the first or second year of the Major Course may be taken as a Minor Course.

First Year.

(Language—Minor Course.)

1st Semester.

Historical and Comparative Grammar of the German Language. *Three times weekly.*

The first weeks of the semester will be given to an account of the methods and chief results of the Indo-European and of comparative Germanic philology, and a review of the fundamental principles and different systems of phonetics; the remaining (and greater) part of the semester to an accurate study of Gothic. The phonology and morphology of the Gothic language, as given in Braune's Gothic Grammar, will be considered in connection with the corresponding sounds and forms of the other branches of the Indo-European family of languages, especially the Latin, Greek and Sanskrit.

Reading of Middle High German Texts. *Twice weekly.*

The work in Middle High German during the first semester is intended to give the student a reading knowledge of that language, without presupposing a systematic study of Middle High German Grammar. It begins with the easiest texts, such as can be understood by all readers of modern German, and proceeds to texts of average difficulty, such as the Nibelungenlied.

2nd Semester.

Historical and Comparative Grammar of the German Language (continued). *Twice weekly.*

In these lectures the development of old High German into Middle High German, and of Middle High German into Modern High German, will be shown in detail, Old High German being at the same time considered in its relation to the other Teutonic languages, and especially to Gothic.

Reading of Middle High German Texts (continued). *Once weekly.*

The reading of Middle High German authors during the second semester will include more difficult texts; for example, the Parzival of Wolfram von Eschenbach.

Reading of Gothic and of Old High German Texts. *Twice weekly.*

This course is supplementary to the lectures on Gothic Grammar in the first semester, and to those on old High German Grammar in the second semester.

Private Reading: Middle High German Authors.

Second Year.

(*Literature—Minor Course.*)

1st Semester.

History of German Literature from the earliest times to the time of the Reformation, inclusive. *Four times weekly.*

These lectures, which will be delivered in German, will begin with the account of German civilization found in classical authors, and will include Ulfilas, the time of Charlemagne, the Glosses, the fragments of heathen poetry, the Hêliand, Otfried, and Latin works of early date, the Nibelungenlied, and the Heldenbuch, the time of Wolfram, Gottfried, Hartmann, the Minnesingers and Meistersingers, Sebastian Brandt, Hans Sachs, etc. Some account will be given of the age and condition of the manuscripts.

Study of special authors. *Once weekly.*

2nd Semester.

History of German Literature (continued). *Four times weekly.*

These lectures will touch lightly upon the time of Opitz, and will proceed to treat of the precursors and of the contemporaries of Schiller and Goethe, of the Romantic school, and of the literature of the present time.

Study of special authors. *Once weekly.*

The Private Reading throughout this year will include selections from the principal German authors. Works in Middle High German will be read during the year in language.

Group. German with any language.

FRENCH.

Beginners' Class. An introductory course, resembling the introductory course in German, will be provided for the convenience of those students who, in their matriculation examination, omitted French.

Conversation Class. A class for French conversation will meet in the afternoon or evening, three times a week. It may be attended by any student that has passed the matriculation examination in French.

Major. Course. The Major Course in French presupposes as much knowledge as is required for the matriculation examination in that subject. Either the first or second year can be taken as a Minor Course, the two years together forming a Major.

The lectures are delivered in French.

First Year.

(*Language—Minor Course.*)

1*st Semester.*

Historical Grammar of the French Language. *Three times weekly.*

This course is intended to give the student a clear account of the development of the French language from the Latin, through the forms known as Old and as Middle French. It will include a general introduction into the comparative philology of the Romance languages.

Reading of Old French Texts. *Twice weekly.*

Private Reading: Old French Texts.

2*nd Semester.*

Lectures on the History of French Literature from the earliest times to the close of the 13th century. *Three times weekly.*

In connection with these lectures, and in connection with their continuation in the second year, courses of parallel reading will be indicated, including numerous French authors and books of reference in the French language. Special examinations on the courses of reading will be held from time to time. It should be remembered that French literature and English literature are indissolubly connected, and that French is the typical literature of the Middle Ages.

French Composition. *Once weekly.*

The lectures being delivered in French, the notes taken by the students will be submitted to the instructor, and one hour weekly will be devoted to grammatical criticism or needful instruction in style.

Reading of Old French Texts (continued). *Once weekly.*

Private Reading: Old French Texts.

Second Year.

(*Literature—Minor Course.*)

1*st Semester.*

Lectures on the History of French Literature of the 14th, 15th, 16th, and 17th centuries. *Four times weekly.*

French Composition (continued). *Once weekly.*

The Private Reading will include selections from the most important authors, especially those of the classical drama.

2*nd Semester.*

Lectures on the History of French Literature of the 18th and 19th centuries. *Four times weekly.*

This course comprises the reading of selections from the most important authors of the 18th century, of the Revolution, of the Restoration, and of contemporary France.

French Composition. *Once weekly.*

It will be required of the student to prepare French essays or translations, and one hour weekly will be devoted to grammatical criticisms of these essays, or to needful instruction in grammar and style.

The courses of the first and of the second year will be given alternately.

Group. French with any language.

Graduate Courses. Special courses in Old French, and in Romance Philology and Romance Dialects, will be given for graduate students. The work will vary from year to year.

ITALIAN.

First Year.

(*Language—Minor Course.*)

Major Course. Historical Grammar of the Italian Language, terminating with reading of Italian Texts. *Five times weekly.*

This course comprises a philological introduction into the study of Italian, translation of English into Italian, and class exercises in pronunciation and reading. Private reading will be assigned toward the close of the year.

Second Year.

(*Literature.*)

History of Italian Literature, and special study of Dante. *Four times weekly.*

Composition and Reading. *Once weekly.*

The Private Reading in this course will include selections from Petrarch, Boccaccio, Manzoni, and Leopardi.

Examinations on the courses of private reading will be held from time to time.

The courses of the first and of the second year will not be given simultaneously.

Group. Italian with any language.

SPANISH.

First Year.

(*Language—Minor Course.*)

Major Course. Historical Grammar of the Spanish Language, terminating with reading of Spanish Texts. *Five times weekly.*

This course comprises a philological introduction into the study of Spanish, translation of English into Spanish, and class exercises in pronunciation and reading. Private reading will be assigned toward the close of the year.

Second Year.

(Literature.)

History of Spanish Literature, with reading of selections from the most important texts. *Four times weekly.*

Composition and Reading. *Once weekly.*

The Private Reading in this course will include selections from Cervantes, Calderon, Moratin, and Fernan Caballero.

The courses of the first and of the second year will not be given simultaneously.

Group. Spanish with any language.

PHILOSOPHY.

A course in Philosophy of five hours weekly throughout one year is required of all candidates for the degree of Bachelor of Arts.

1st Semester.

Elements of Logic, by Professor FULLERTON.
Twice weekly in the first half of the semester.

Elements of Psychology, by Professor FULLERTON.
Twice weekly throughout the remainder of the semester.

Physiological Psychology (lectures and demonstrations), by
Once weekly.

Christian Ethics, by President RHOADS. *Once weekly.*

In the first part of the course, the lectures will treat of the theory of ethics, and, in connection with this discussion, there will be given a brief history of ethical systems. The subsequent and larger part of the course will be occupied with an examination of the moral teachings of Christianity, and their applications.

Lectures on the Bible and Biblical Study, by Professor RENDEL HARRIS. *Once weekly.*

2nd Semester.

Lectures on the History of Philosophy, by Professor FULLERTON. *Twice weekly.*

Physiological Psychology (lectures and demonstrations) by
Once weekly.

Christian Ethics, by President RHOADS. *Once weekly.*

Lectures on the Bible and Biblical Study by Professor RENDEL HARRIS. *Once weekly.*

HISTORY.

The courses indicated suggest the topical plan of instruction which is to be followed. The histories of Greece and Rome are

taken as representative of ancient history, those of France and England as representative of mediæval and modern history; and in following these special lines the work of the classes will consist largely in the preparation by individuals of reports on specific topics and important episodes in the histories studied. These reports will be founded, not only upon the text-books used, but also upon all the standard authorities available.

Constant text-book drill will be combined with instruction by means of frequent lectures, whose object will be to give life to the narrative of the text-book used in recitation, by recounting the most important contemporary events in the history of other countries, and by pointing out the chief and most memorable characteristics of the periods studied, as well as the philosophical connection of leading facts and tendencies. The general purpose of the lectures will be to group and explain facts separated in the narrative, subordinating them to broader views of history.

The courses on the Italian Renaissance and the German Reformation will be lecture courses.

Each year's work will be introduced by a brief course of lectures on the philosophy of history and on methods of study.

First Year.

(Ancient History—Minor Course.)

Major Course.

I. History of Greece. *Five hours a week on alternate weeks during the first semester.*

In this course, lectures are given on such topics as the reforms of Solon and of Cleisthenes, the causes of the Persian invasion, the character and influence of the Confederacy of Delos. As the history of the popular states of Greece turns largely upon the individual characters and influence of leading men, class reports are required on the antecedents, lives, and work of the principal statesmen, dramatists, and orators.

II. History of Rome.

Five hours a week on alternate weeks during the first semester, and five hours weekly throughout most of the second semester.

In this course the lectures deal with such topics as the sources of Roman history, the causes, means, and ends of Roman conquest, Roman provincial administration, agrarian troubles, the characters, aims, and reforms of the Gracchi.

In both courses, text-book drill is made prominent, but more especially in Roman history, because the internal history of Rome, down to the time of the empire, turns upon class struggles and consequent legal and constitutional reforms which can be mastered in no other way.

The plan of conducting work in both Greek and Roman history simultaneously, the two courses alternating with each other, week by week, is adopted

in order that the histories of the two countries may run parallel up to the point where Greek history is merged into Roman by conquest, with a view to enable the student when hearing lectures to perceive for herself contrasts and likenesses.

III. European History from the fall of the Western Empire to the establishment of the Empire of Charles the Great.

Lectures five hours a week during the last weeks of the second semester.

Second Year.

(*Modern History—Minor Course.*)

History of France. *Three times weekly, on alternate weeks throughout the year.*

History of England. *Three times weekly, on alternate weeks throughout the year.*

Italian Renaissance and German Reformation.

Twice weekly during the first semester.

Lectures on special topics in American History.

Twice weekly during the second semester.

The topics selected for the lectures on American history will be such as the following: the foundation of the colonies; the contest between England, Spain, and France for the possession of America; contrasts in colonial life and manners; the causes of the Revolution; the second war with Great Britain; the great westward migration; the Missouri compromise; the history of parties, with special reference to the rise and influence of the Federalist party.

Either year of the major course in history may be taken separately as a minor course.

Group. History and Political Science. Students that elect this group may take, as required studies, instead of one year of science and one year of history, one year of science and one year of French, German, Italian, or Spanish.

Two years of history may be taken without the course in political science, by electing one year of history as a minor course and a second year as a free elective.

POLITICAL SCIENCE.

First Year.

(*Minor Course.*)

Elements of Political Economy. (Text-book drill and lectures.) ***Major Course.***

Three times weekly throughout the year.

Origin and development of the State. (Fifteen lectures.)

Twice weekly during the first semester.

Origin and development of law. (Ten lectures.)

Twice weekly during the first semester.

History of Political Opinion. (Twenty-five lectures.)

Twice weekly during the second semester.

Second Year.

(*Minor Course.*)

History of Political Institutions. (Lectures.)
Twice weekly throughout the year.

English and American Constitutional History. (Lectures.)
Three times weekly during the first semester.

American State Constitutions. (Fifteen lectures.)
Three times weekly during the second semester.

European Political Revolutions. (Twenty lectures.)
Three times weekly during the second semester.

ADVANCED COURSE IN HISTORY AND POLITICS.

The following advanced course in History and Politics will be offered by Dr. Woodrow Wilson, to graduate students, in the year 1887–88. It has been planned not only with reference to the needs of those who desire to prepare themselves to be teachers in these branches, but also as a useful preparatory course for students that are looking forward to special studies in law.

1*st Semester.*

The History, Functions, and Organs of Government. Fifty lectures. *Four times weekly.*

2*nd Semester.*

1. Nature and Influence of Roman Law. Ten lectures.
2. Comparative Constitutional History. Twenty-five lectures.
3. Growth of Modern Nationalities. Eight lectures.
4. History of Political Economy. Ten lectures. *Four times weekly.*

Throughout the year one hour a week will be given to the meetings of a Seminary at which reports will be read of graduate work done privately upon topics collateral with those of the lectures.

The modifications of the course in subsequent years will be announced at a later time.

MATHEMATICS.

Preparatory Course. A Preparatory Course of five hours weekly throughout one semester is designed for students that may be in some respects well fitted to enter the college, but who have not thoroughly mastered those mathematical subjects which are optional in the

entrance examination; the lectures will be adapted each year to the requirements of students taking the course; they will, generally speaking, include solid geometry and plane and spherical trigonometry.

Major Course.

The Major Course is a course in Pure Mathematics, and in the two years the students will be able to gain a fair knowledge of the principal pure mathematical subjects. It is not proposed in this course to give much study to the applications of Mathematics, but some opportunity for this will be afforded by the courses of lectures on Dynamics, and by an alternative course in the final semester. The subjects in this alternative course will be arranged by the instructor with a view to the needs of students intending to take the graduate course. The points of contact of Mathematics with other branches of mental and physical science will be indicated as far as possible throughout the course, special attention being paid to the nature of mathematical reasoning, and to the true relation and mutual dependence of Mathematics and Physics, in order that students may obtain just ideas of the scope and province of Mathematics. The course of lectures on the history of Mathematics in the second year is intended to give an outline of the development of the subject from its beginning to the present time, with special notice of the great modern mathematicians.

First Year.

(*Minor Course.*)

1*st Semester.*

Algebra, advanced Trigonometry, and Theory of Equations. (*a*) *Twice weekly.*

Analytical and Modern Geometry of Two Dimensions. (*b*) *Twice weekly.*

Elementary Dynamics. (*c*) *Once weekly.*

2*nd Semester.*

Elementary Differential and Integral Calculus. (*d*) *Twice weekly.*

Analytical and Modern Geometry of Two Dimensions. (*e*) *Twice weekly.*

Dynamics. (*f*) *Once weekly.*

Second Year.

1*st Semester.*

Differential and Integral Calculus. (*g*) *Three times weekly.*

Analytical Geometry of Three Dimensions. (*h*) *Twice weekly.*

2nd Semester.

Differential Equations and Elements of Finite Differences. (*i*) *Twice weekly.*

Analytical Geometry of Three Dimensions; *or*, Applied Mathematics. (*j*) *Twice weekly.*

History of Mathematics. (*k*) *Once weekly.*

The work for either year may be divided so as to cover a period of two consecutive years. The division must be made as follows:

FIRST YEAR'S WORK, ... { 1*st Half* { 1*st Semester* (*a*). / 2*d Semester* (*b*). } / 2*d Half* { 1*st Semester* (*c*) *and* (*e*). / 2*d Semester* (*d*) *and* (*f*). }

SECOND YEAR'S WORK, ... { 1*st Half* { 1*st Semester* (*g*). / 2*d Semester* (*i*) [*and* (*k*)]. } / 2*d Half* { 1*st Semester* (*h*). / 2*d Semester* (*j*) [*and* (*k*)]. }

Group. Mathematics with Physics, or Mathematics with Greek or Latin.

Free Elective Course. The Free Elective course in Mathematics (one year and a half) consists of the first year's work (divided, if desired), with (*g*), and (*h*) or (*i*) of the second year's work. With the approval of the instructor (*k*) may be substituted for an equivalent part of (*h*) or (*i*).

Graduate Course. The lectures in the Graduate Course will be varied from year to year; so that, while each year will be complete in itself, a graduate may, if she wish, attend for more than two consecutive semesters. This course will be open as a Free Elective to students that have completed the Major Course in Mathematics. The subjects of the lectures will be announced by the instructors some weeks previously, and will be regulated partly by the requirements of those proposing to take the course.

1st Semester.

Higher Algebra. *Twice weekly.*

Geometry. *Three times weekly.*

2nd Semester.

Two courses of lectures in Analysis and Geometry (*e.g.*, Theory of Numbers, Quaternions, Elliptic and Theta Functions); the lectures in these courses will be on different developments of the subject from year to year.

PHYSICS.

A two years' course of instruction in Physics will be provided in and after the year 1887–88. The new laboratory will contain the apparatus necessary for general instruction, exact measurement, and special research, and will also contain a collection of tools for the construction or modification of apparatus. Laboratory work will be required during both years of the course, in order that the principles of Physics may be clearly apprehended, and the student familiarized with the apparatus and methods of physical measurement.

Major Course.

For the first year's course, a knowledge of the elements of plane trigonometry and logarithms is required; in the second year, use will be made of differential and integral calculus.

First Year.

(Minor Course.)

1st Semester.

Lectures and Recitations. *Five times weekly.*

Laboratory work. *Three hours weekly.*

In the first semester instruction will be given in Elementary Mechanics, based upon Lodge's Mechanics; and in Electricity and Magnetism, with Thompson's Elementary Lessons as a text-book. As a rule, there will be two lectures and three recitations weekly.

2nd Semester.

Lectures and Class Work. *Five times weekly.*

Laboratory Work. *Three hours weekly.*

The subjects treated during the second semester will be Heat, Sound, and Light; the recitations will be based upon the lectures, and upon such text-books as may be found best adapted to the requirements of the course. Throughout the year the students will be required to keep a record of the results of their experiments, and of such calculations as may be required. This record will be submitted weekly for examination and correction, and there will be frequent examinations on the class work.

Second Year.

1st Semester.

Lectures on Mechanics, Sound, Heat, Light, Electricity, and Magnetism. *Five times weekly.*

Laboratory work. *Four hours weekly.*

The lectures and class work of the second year will be devoted to a more elaborate treatment of the subjects treated in the first year; an attempt will be made to bring the students into direct contact with the original work of investigators in Physics; the experiments will be of greater refinement, and more attention will be paid to exact measurement.

2nd Semester.

Lectures and class exercises (continued). *Five times weekly.*

Laboratory work. *Four hours weekly.*

Group. Physics with Mathematics; Physics with Chemistry; or Physics with Biology (animal or vegetable.)

CHEMISTRY.

Instruction in Chemistry for undergraduates will be given by means of lectures, examinations, and laboratory practice. This course extends over a period of two years, and consists of five lectures and a minimum of six hours' laboratory work weekly during both years. The chief object of the instruction is to give students a thorough and systematic knowledge of chemical phenomena, and a clear conception of the relations existing between observed facts and the general theories of the science. While chemical analysis plays an important part in the instruction given during a portion of the course, it is taught only as an application of the knowledge of chemical facts which the student has already acquired.

First Year.

Major Course.

(*Minor Course.*)

1st Semester.

Introduction to General Chemistry (Lectures). *Five times weekly.*

Laboratory work. *Six hours weekly.*

The lectures of the first semester are a general introduction to chemistry. The more important properties of the elements and their compounds are considered, and a thorough study is made of the facts upon which the general laws of chemical action are based.

The laboratory is open for the first year's students six hours weekly. The laboratory work begins with a series of exercises in manipulation and in the more frequently occurring chemical operations. The students will be taught the use of accurate measuring and weighing apparatus, and made familiar with the calculations employed in quantitative work. Analysis will be taught only incidentally, and not as the chief object of the science. While studying the more important properties of the elements and their compounds, considerable attention will be devoted to a study of the quantitative relations of the substances with which the students work.

2nd Semester.

General Chemistry (Lectures and Class Exercises).

Five times weekly.

Laboratory work. *Continued as in first semester.*

The lectures and exercises during the second semester will be a continuation of the work of the first semester. The laboratory work will consist of a systematic study of the properties and behavior of the more important elements and compounds, and of a repetition of the most instructive experiments that have been performed previously in the lecture room.

Second Year.

1st Semester.

Lectures on Analytical and Physical Chemistry. *Five times weekly.*
Laboratory work. *Six hours weekly.*

The lectures of the first portion of the semester of the second year's course will be upon the methods of Analytical Chemistry. Processes for the detection, separation, and estimation of elements will be considered. These will be followed by lectures upon Stoichiometry and Theoretical Chemistry.

Throughout the year the students will work in the laboratory six hours weekly. Their work will be upon the subjects considered in the lectures; great care is taken to avoid a mere mechanical use of analytical tables, the student being encouraged to devise analytical methods without aid, using only the knowledge that she actually possesses.

2nd Semester.

Lectures on Carbon Compounds. *Five hours weekly.*
Laboratory work. *Six hours weekly.*

The subject of the lectures during the second semester will be the chemistry of the hydrocarbons and their derivatives. The laboratory work will be continued as in the first semester, the greater portion of the course being devoted to Analytical Chemistry. Towards the end of the semester, a few of the typical carbon compounds will be prepared and studied in the laboratory.

Graduat Courses.

Opportunities for advanced study and research are provided for graduate students that have already such a knowledge of chemistry as would be obtained by taking the two years of work laid down for undergraduates, and for others who, although not graduates, are competent to follow the advanced courses profitably. The advanced work will consist in exercises intended to give the student a comprehensive knowledge of chemical methods and operations, in difficult and typical preparations, and in researches on assigned topics. Advanced students will be required to become familiar with the literature bearing on their practical work. A knowledge of French and German will therefore be necessary. There will also be lectures from time to time upon selected topics, and upon the more recent researches in organic and inorganic chemistry.

The principal chemical journals are kept on file in the chemical library, and advanced students will be required to read and report upon the more important articles. The laboratory will be open for such students from 9 A.M. until 5 P.M., daily except Saturdays.

BIOLOGY.

The instruction in Biology includes two major courses which coincide throughout the first year (minor course). The work of the first year forms a general introduction to the subject, special attention being devoted to the comparative study of living things as a whole. In the second year two independent courses are given; one in Animal Morphology and Physiology (*a*), the other in Botany (*b*). Five lectures, or other class exercises, and six hours' laboratory practice a week, are required throughout both years. A knowledge of the elements of Chemistry and Physics is very desirable for students entering any course in Biology.

First Year.

Major Course.

(*Minor Course.*)

1st Semester.

General Biology.

Five times weekly throughout the first half of the semester, afterwards three times weekly.

It is the object of this course to give the student clear conceptions of the fundamental principles of vital structure and action, the outlines of general classification, and the relations of the biological sciences to one another and to other branches of science. The laboratory practice is designed to cultivate the power of exact observation, to enable the student as far as possible to examine for herself the facts discussed in the lectures, and to impart a knowledge of methods of practical work.

The work necessarily involves an accurate study of vital phenomena in detail, which alone can form the groundwork of any real discipline in the science. The student is, however, led as far as possible to regard facts as illustrations of more general biological truths, and to estimate the importance of these truths beyond the immediate field of the specialist.

In the first semester the student examines a number of animals and plants, so arranged as to form a natural and progressive introduction to the general principles of Biology. After certain general preliminary studies on familiar and highly organized forms, the student makes a detailed examination of unicellular organisms, and from them proceeds gradually to the complex conditions of structure and function found in higher plants and animals.

Elementary Human Physiology.

Twice weekly throughout the second half of the semester.

This course of abont sixteen lectures gives a brief outline of human anatomy and physiology, with simple practical demonstrations to illustrate some of the more important facts.

Laboratory work. *Six hours weekly.*

2nd Semester.

General Biology (continued).

Five times weekly during the first half-semester, afterwards three times weekly.

The work of the first semester is continued, dealing mainly with the biology of higher plants and animals, and ending with the embryology of the chick.

Elementary Botany, Plant Analysis, and Classification.

Twice weekly during the second half-semester.

In this course the student is taught to classify flowering plants as an illustration of the methods of systematic work.

Laboratory work. *Six hours weekly.*

Second Year.

A. ANIMAL MORPHOLOGY AND PHYSIOLOGY.

1st Semester.

General Zoölogy. *Three times weekly.*

Comparative Anatomy of Vertebrata. *Twice weekly.*

These courses extend the work of the first year so as to include a comprehensive survey of the phenomena of animal life. The lectures will deal in part with the relations of animals to one another, and to extinct forms of life as shown in their structure and mode of development; in part with their relations to their present and past environments, their habits, instincts, and general physiology, and geographical distribution.

Laboratory work. *Six hours weekly.*

In the laboratory a certain option will be allowed, and students will, to some extent, work independently of one another. All will make dissections of typical forms illustrating the leading groups of animals. A moderate amount of work will be required in systematic zoölogy (the determination of species from standard manuals) to teach the student how to name and classify animals, and to learn the relation between species, genera, and the higher groups. Students looking forward to the study of medicine are recommended to devote especial attention to the anatomy of higher vertebrates and to human and comparative osteology. Others may make a more general study of comparative anatomy and microscopic structure.

2nd Semester.

Advanced Physiology and Histology. *Three times weekly.*

Lectures and laboratory study on the special physiology of man and higher animals. The practical course will consist mainly of the microscopical exam-

ination of organs and tissues (histology), with practice in the preparation of permanent microscopic specimens, and in other histological methods. The laboratory will be furnished with a small equipment of physiological apparatus for demonstrations and for simple experiments by the students.

Advanced Biology. Lectures on special and theoretical topics.

Twice weekly.

In this course the student will be introduced to some of the more interesting questions of theoretical biology. Some of the lectures will consider special problems, such as the migration of birds, the fertilization of flowers by insects, protective resemblance and mimicry, deep-sea life, instinct and intelligence, the life of animal communities, etc. In the main, however, they will consist of discussions of the broader philosophical problems of the science, including such subjects as heredity, variation, adaptation, the metamorphosis of animals, and related topics. Courses of reading will be recommended in connection with the lectures.

Laboratory work. *Six hours weekly.*

B. BOTANY.

The year's work in Botany is designed to give the student a thorough theoretical and practical knowledge of general botany, of which the three principal divisions, Anatomy, Physiology, and Morphology (including Systematic Botany) are treated throughout the course. Anatomy and Morphology are treated with constant reference to the function of the cells or organs under consideration, and the comparative study of classes is conducted with more or less reference to Systematic Botany. The course in General Botany is followed by two short special courses; the one in Physiology, intended as an introduction to the methods of dealing with the more intricate problems of vegetal life; the other in Systematic Botany.

1*st Semester.*

General Botany. *Five times weekly.*

These lectures include anatomy of cell, anatomy of tissue, organography (both vegetative and reproductive), and the comparative study of cryptogams and phanerogams, from the lowest to the highest forms, the comparative study of classes being finished in the second semester.

Laboratory work. *Six hours weekly.*

2*nd Semester.*

General Botany (continued).

Five times weekly during the first half of the semester.

Special Botany (Systematic Botany and Physiology).

Five times weekly during the second half of the semester.

Laboratory work. *Six hours weekly throughout the semester.*

Group. Biology (A or B) with Physics, or Biology (A or B) with Chemistry.

Graduate Courses.

Advanced courses, supplementing courses A and B, are offered in Comparative Anatomy, Physiology, and Embryology, and in Vegetable Anatomy and Physiology. These courses consist in part of lectures and recitations, but mainly of less formal instruction in the laboratory, with courses of reading and practical study. Special topics may be selected according to the wish or abilities of the student, and pursued with direct reference to learning the methods of original research.

PHYSICAL CULTURE.

The health of the students is under the care of a consulting physician, who visits the college at regular intervals. and can be freely consulted by all the students.

The gymnasium (see page 46) is open for the use of students from 9 A.M. to 10 P.M. daily. Attendance is voluntary. Before admission to the gymnasium each student must be examined by the Directress with reference to physical development, strength of heart and lungs, and hereditary tendencies. The exercises prescribed will be strictly individual, varying according to the physical development of the student; their effect will be tested by half-yearly examinations, and great pains will be taken to prevent any over-exertion.

Opportunities for Public Worship.

It was the desire of the Founder that the college should be pervaded by a simple and practical Christianity, and an endeavor will be made to promote this end.

In the vicinity of the college there are churches of various denominations, and a Friends' Meeting House. There will be daily morning worship in the college.

COLLEGE BUILDINGS.

The college buildings are situated ten miles west of Philadelphia, on the Pennsylvania Railroad, a quarter of a mile from the Bryn Mawr Station; the neighboring country is agreeable and very healthful, and towards the west there is a fine prospect of hills. The college grounds cover forty acres, and include planted lawns and tennis courts; they are surrounded by private villas.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains the lecture-rooms and laboratories, and the offices of administration. It is the wish of the Trustees to transfer the scientific departments of the College to a new building. Taylor Hall will soon be entirely occupied by the library and by the remaining departments; and it is suggested to all persons that wish to bestow gifts on the College, to contribute to the $50,000 needed for the new building. Around Taylor Hall it is the intention of the Trustees to erect halls for the accommodation of students; descriptions of Merion Hall and of Radnor Hall are annexed to the present Program. The Gymnasium is one of the most commodious yet provided for women. It contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather; a room for the Directress, to which is attached another for the examination and record of the physical development of the students, and bathrooms for use after exercise. It is open to the students at all times. This gymnasium has been built in accordance with the system of Dr. Sargent; it is furnished with his complete apparatus, and is under the charge of a Directress who has completed his course of instruction.

Near the college is a large Hotel, accommodating three hundred guests, a Telegraph Office, Adams' Express Office, and United States Money Order Office. There are good roads in every direction. Riding horses and phaetons may be kept at a livery stable near the college.

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Bryn Mawr College.

PROGRAM.

1888.

PHILADELPHIA:
Sherman & Co., Printers.
1888.

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Academic Appointments.

James E. Rhoads, M.D., *President of the College.*

M. Carey Thomas, Ph.D., *Dean of the Faculty and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877–78; University of Leipsic, 1879–82; Ph.D., University of Zürich, 1882; Sorbonne and the Collége de France, 1883.

Emily L. Gregory, Ph.D., *Associate in Botany.*

L.B., Cornell University, 1881; private student in the botanical laboratories of Professor Wigand, University of Marburg, of Professor Reinke, University of Göttingen, and of Professor Schwendener, University of Berlin, 1881–83; private student in botanical laboratory of Professor Goodale, Harvard University, and in charge of the laboratory work of the Harvard Annex, 1883–84; Teacher of Botany in Smith College, 1884; Ph.D., University of Zürich, 1886.

Edmund B. Wilson, Ph.D., *Professor of Biology.*

Ph.B., Yale College, 1878; Fellow in Biology, Johns Hopkins University, 1879–81; Ph.D., Johns Hopkins University, 1881; Assistant in Biology in the Johns Hopkins University, 1881–82; studied at the Universities of Cambridge and Leipsic, and at the Biological Station, Naples, 1882–83; Lecturer on Biology, Williams College, Mass., 1883–84; Lecturer on Comparative Anatomy and Physiology in the Massachusetts Institute of Technology, 1884–85.

Charlotte Angas Scott, D.Sc., *Associate Professor of Mathematics.*

Lincoln, England. Graduate in Honors, Girton College, Cambridge, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, Cambridge, 1880–84; lectured in connection with Newnham College, 1880–83; D.Sc., University of London, 1885.

Edward Washburn Hopkins, Ph.D., *Associate Professor of Greek, Sanskrit, and Comparative Philology.*

A.B., Columbia College, 1878; Fellow in Literature, Columbia College, 1878–81,; University of Leipsic, 1878–81; University of Berlin, 1880; Ph.D., University of Leipsic, 1881; Sorbonne and the Collége de France, 1881; Assistant in Latin and Instructor in Zend in Columbia College, 1881–84.

Paul Shorey, Ph.D., *Associate Professor of Greek and Latin.*

A.B., Harvard College, 1878; University of Leipsic. 1881–82; University of Bonn, 1882; American School of Classical Studies, Athens, 1882–83; Ph.D., University of Munich, 1884.

Edward H. Keiser, Ph.D., *Associate Professor of Chemistry.*

S.B., Swarthmore College, 1880; Assistant in Chemistry in Swarthmore College, 1880–81; S.M., Swarthmore College, 1881; Fellow in Chemistry, Johns Hopkins University, 1882–84; Ph.D., Johns Hopkins University, 1884; student at the Royal School of Mines, Freiberg, Saxony, 1884; Assistant in Chemistry in the Johns Hopkins University, 1884–85.

Woodrow Wilson, Ph.D., *Associate Professor of History and Political Science.*

A.B., Princeton College, 1879, and A.M., 1882; studied common, statute, and international law at the University of Virginia, 1879–81; Fellow in History, Johns Hopkins University, 1884–85; Ph.D., Johns Hopkins University, 1886.

J. James Stürzinger, Ph.D., *Associate Professor of Romance Languages.*

Wylen, Switzerland. University of Marburg, 1875–76; University of Leipsic, 1876–77; Sorbonne and the Collége de France, 1877–78; Ph.D., University of Zürich, 1879; studied in London, Cambridge, and Oxford, 1879–81; Privatdocent at the University of Bonn, 1882–85.

HERMANN COLLITZ, PH.D., *Associate Professor of German Literature and Language.*

Bleckede, Hanover, Germany. University of Göttingen, 1875–78; University of Berlin, 1878–81; Ph.D., University of Göttingen, 1878; Privatdocent in the University of Halle, 1885–86.

CHARLES A. PERKINS, PH.D., *Associate in Physics.*

A.B., Williams College, 1879; Fellow in Physics, Johns Hopkins University, 1883–84, and Ph.D., 1884; Assistant in Physics, Johns Hopkins University, 1884–87.

ROSE CHAMBERLIN, *Instructor in French and German.*

Great Yarmouth, England. Graduate in Honors, Newnham College (Mediæval and Modern Languages Tripos, First Class) University of Cambridge, England, 1886.

FREDERIC S. LEE, PH.D., *Instructor (Associate elect) in Physiology and Histology.*

A.B., St. Lawrence University, 1878, and A.M., 1881; Fellow in Biology, Johns Hopkins University, 1884–85, and Ph.D., 1885; studied at the University of Leipsic, 1885–86; Instructor in Physiology, St. Lawrence University, 1886–87.

MOSES S. SLAUGHTER, A.M., *Instructor in Latin.*

A.B., Asbury University, Indiana, 1883, and A.M., 1886; Fellow in Latin, Johns Hopkins University, 1885–87.

FRANCES H. MITCHELL, PH.D., *Reader (non-resident) in Anglo-Saxon.*

Ph.D., University of Zürich, 1888.

JAMES HARKNESS, B.A. (*Cambridge and London*), *Associate (elect) in Mathematics.*

Derby, England. Major Scholar, Trinity College, Cambridge, 1882; Graduate in Honors (8th Wrangler), in the Cambridge Mathematical Tripos, 1885; Mathematical Exhibitioner, London University Intermediate Arts Examination, 1885; Mathematical Scholar, London University B.A. Examination, 1887.

HERBERT WEIR SMYTH, PH.D., *Associate (elect) in Greek and Latin.*

A.B., Swarthmore College, 1876; and Harvard University, 1878; University of Leipsic, 1879–81; University of Göttingen, 1881–83; Instructor in Classics and Sanskrit, Williams College, 1883–85; Ph.D., University of Göttingen, 1884; Fellow by Courtesy and Lecturer on Greek, Johns Hopkins University, 1885–87; Reader in Greek Literature, Johns Hopkins University, 1887–88.

MARY GWINN, PH.D., *Associate (elect) in English.*

Studied at the University of Leipsic, 1879–82; University of Zürich, 1882; Sorbonne and the Collége de France, 1883; Fellow in English, Bryn Mawr College, 1885–87, and Ph.D., Bryn Mawr, 1888.

WILLISTON WALKER, PH.D., *Associate (elect) in History.*

A.B., Amherst College, 1883; Studied at Hartford Theological Seminary, 1883–86; University of Leipsic, 1886–88, and Ph.D., 1888.

FRANKLIN H. GIDDINGS, A.B., *Resident Lecturer (elect) in Political Science.*

A.B., Union College, 1887; author of "The Report on Profit-Sharing," published in the Seventeenth Annual Report of the Massachusetts Bureau of Statistics and Labor, "The Sociological Character of Political Economy," and (with Professor Clark) of "The Modern Distributive Process," etc.

ALFRED COOK, PH.D., *Associate (elect) in Philosophy.*

A.B., Northwestern University, 1877, and A.M., 1880; Ph.D., University of Halle, 1886; Fellow by Courtesy in Johns Hopkins University, 1887–88.

FLORENCE M. PEIRCE, *Librarian.*

CAROLYN C. LADD, *Directress of the Gymnasium.*

Studied under Dr. Sargent, 1884–85; student in the Woman's Medical College of Philadelphia.

ANNA E. BROOMALL, M.D., *Consulting Physician of the College.*

Professor in the Woman's Medical College of Pennsylvania.

GEORGE S. FULLERTON, A.M., *Lecturer on Psychology and Logic.*

Adjunct Professor of Intellectual and Moral Philosophy in the University of Pennsylvania.

J. RENDEL HARRIS, A.M., *Lecturer on the Bible and Biblical Study.*

Professor of Biblical Languages and Ecclesiastical History in Haverford College; late Associate Professor of New Testament Greek, in the Johns Hopkins University.

JAMES MCKEEN CATTELL, PH.D., *Lecturer on Physiological Psychology.*

Lecturer on Psycho-Physics in the University of Pennsylvania.

ARTHUR L. FROTHINGHAM, JR., PH.D., *Lecturer on Archæology.*

Ph.D., University of Leipsic, 1883: Fellow of Johns Hopkins University, 1882–85: Editor of the American Journal of Archæology; Professor of Archæology in Princeton College.

Greek and Roman Architecture (lectures, illustrated with the stereopticon, fortnightly, beginning after the winter recess and continuing till the close of the academic year, see page 26).

Graduates.

JANE M. BANCROFT, ... *Fellow in History*, 1885–86.

West Stockbridge, Massachusetts. Ph.B., Syracuse University, 1877; Ph.M., 1880; and Ph.D., 1884; Professor of French Language and Literature, Northwestern University, Evanston, Illinois, 1877–85; student in the University of Zürich, 1886–87, and student in the Sorbonne and the Collége de France, 1888.

CORA AGNES BENNESON, ... *Fellow in History*, 1887–88.

Quincy, Illinois. A.B., University of Michigan, 1878; LL.B., 1880; A.M., 1883.

KITTY AUGUSTA GAGE, ... *Fellow in Greek*, 1885–86.

Wilton, New Hampshire. A.B., Boston University, 1878; A.M., Cornell University, 1885; Teacher of Classics in the State Normal School, New Paltz, New York.

MARY GWINN, ... *Fellow in English*, 1885–87.

Baltimore, Maryland. Studied at the University of Leipsic, 1879–82, and at the University of Zürich, 1882; graduate student Bryn Mawr College, 1887–88, and Ph.D., Bryn Mawr College, 1888.

HELEN L. LOVELL, ... *Fellow in Greek*, 1887–88.

Flint, Michigan. A.B., University of Michigan, 1887.

GERTRUDE H. MASON, ... *Fellow in English*, 1887–88.

San José, California. Ph.B., University of Michigan, 1876.

MARCELLA O'GRADY, ... *Fellow in Biology*, 1887–88.

Boston, Massachusetts. S.B., Massachusetts Institute of Technology, 1885; Teacher of Science in the Bryn Mawr School, Baltimore, Md., 1885–87.

LUCY M. SALMON, ... *Fellow in History*, 1886–87.

Fulton, New York. A.B., University of Michigan, 1876, and A.M., 1883; Teacher of History in the Indiana State Normal School, 1883–86; Associate Professor of History, Vassar College.

SARAH E. SATTERTHWAITE, ... *Fellow in Greek*, 1886–87.

Adrian, Michigan. A.B., University of Michigan, 1886; Assistant in Library and Graduate Student in the University of Michigan.

EFFIE A. SOUTHWORTH, ... *Fellow in Biology*, 1885–86.

North Collins, New York. S.B., University of Michigan, 1885; Fellow in Biology, Bryn Mawr College, 1885–86, and Student-Assistant in the Biological Laboratory, 1886–87; Assistant Botanist to the Botanist of the United States Agricultural Bureau, Washington.

ANNE A. STEWART, ... *Fellow in Mathematics*, 1886–87.
West Bay, Nova Scotia. Studied in University College, London, 1880-82; S.B., Dalhousie College, Halifax, Nova Scotia, 1886.

ELLA C. WILLIAMS, ... *Fellow in Mathematics*, 1885–86.
Watkins, New York. A.M., University of Michigan, 1880; studied under Professor Schwartz, of Göttingen, nineteen months, 1883-85; in residence at Newnham College during the spring term of 1884; Teacher of Mathematics in Miss Moses' School, 647 Madison Avenue, New York City, 1886-87; Teacher in State Normal School, Plymouth, New Hampshire.

JEANNETTE S. BROWN, ... *Greek*, 1886–87.
Graduate Harvard Annex, 1885; Teacher of Greek, Bryn Mawr School, Baltimore, 1887-88.

AGNES EMORY, ... *Latin and Greek*, 1886–87.
Lawrence, Kansas. A.B., University of Kansas, 1884.

MARY H. FREEMAN, ... *Romance Languages*, 1885–87.
Mumford, New York. A.B., Vassar College, 1881, and A.M., 1887.

SUSAN RACHEL HARRISON, ... *Greek and Latin*, 1885–87.
Richmond, Indiana. A.B., Earlham College, 1883.

CAROLINE E. HILLIARD, ... *Chemistry*, 1885–86.
Northboro', Mass. A.B., Smith College, 1883.

MARY A. JOHNSON, ... *Graduate Scholar in Biology*, 1887–88.
New York City. L.B., Smith College, 1885; studied at Newnham College, 1886-87.

DOROTHY WILBERFORCE LYON, ... *English*, 1887–88.
Meadville, Pa. A.B., Wells' College, 1887.

SARAH M. POTTER, ... *English and History*, 1886–87.
Glen's Falls, N. Y. A.B., Wellesley College, 1884.

ZILLAH M. SHERMAN, ... *English*, 1887–88.
Ashtabula, Ohio. A.B., Wells' College, 1882.

MARY TREMAIN, ... *English and History*, 1886–87.
Lincoln, Nebraska. S.B., Nebraska State University, 1881.

EMILY F. WHEELER, . . . *Graduate Scholar in Modern Languages*, 1887–88.
Rockford, Ills. A.B., Northwestern University, 1875, and A.M., 1880.

IDA WOOD, ... *English*, 1887–88.
Philadelphia, Pa. A.B., Vassar College, 1877.

Undergraduates.

GERTRUDE ALLINSON, ... *Group, English and German*, 1885–87.
Beverly, N. J. Prepared by Friends' School, Providence, R. I.

ALICE ELIZA ANTHONY, . . *Group, History and Political Economy*, 1885–88.
South Manchester, Conn. Prepared by Friends' School, Providence, R. I.

EMILY FRANCES ANTHONY, . *Group, History and Political Economy*, 1885–88.
South Manchester, Conn. Prepared by Friends' School, Providence, R. I.

ALICE HOPKINS ALBRO, ... *Group, Biology and Chemistry*, 1886–88.
Fredonia, N. Y. Prepared by Fredonia State Normal School, N. Y.

HELEN CULBERTSON ANNAN, *Group, History and Political Economy*, 1887–88.
New York City. Prepared by Mrs. Comegys' and Miss Bell's School, Chestnut Hill, Pa.

ETHELWYN MORRILL ATWATER, . . *Group, Biology and Chemistry* 1887–88.
Millville, N. J. Prepared by Friends' Central School, Philadelphia, Pa., and by private study.

SOPHIA MEAD ATWATER, ... *Group,* ——— 1886–88.
Millville, N. J. Prepared by private study.

EMILY GREENE BALCH, ... *Group, Greek and Latin,* 1886–88.
Jamaica Plain, Mass. Prepared by Miss Ireland's School, Boston, Mass.

EMMA JOSEPHINE BATTERSBY, . *Group, History and Political Science,* 1886–88.
Bryn Mawr, Pa. Prepared by Wellesley Preparatory School, Philadelphia, Pa.

CATHERINE E. BEAN, ... *Group, English and German,* 1885–88.
San José, Cal. Classical Course, University of the Pacific, San José, 1884–85.

LILLIE WATSON BIRCH, ... *Group, Greek and Latin,* 1887–88.
Philadelphia, Pa. Prepared by Girls' Normal School, Philadelphia, Pa.

ELIZABETH MILLER BLANCHARD, . *Group, Greek and Mathematics,* 1885–88.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

MARY MILES BLANCHARD, ... *Group, Biology and Chemistry,* 1885–88.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

EMILY LOUISA BULL, ... *Group, Greek and Latin,* 1887–88.
Oneonta, N. Y. Prepared by Oneonta Union School, Oneonta, N. Y.

ESTHER F. BYRNES, ... *Group, Greek and Latin,* 1887–88.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, Pa.

JOSEPHINE G. CAREY, ... *Student in Biology,* 1885–86.
Baltimore, Md. Prepared by Miss Reinhardt's School, Baltimore, Md.

CORA MOTT CHILD, ... *Group, Greek and Latin,* 1887–88.
Chateaugay, N. Y. Classical Course, University of Vermont, 1885–87.

EDITH CHILD, ... *Group, Greek and Latin,* 1886–88.
Newport, R. I. Prepared by Dr. W. S. Child, Newport, R. I.

MABEL P. CLARK, ... *Group, English and Greek,* 1885–88.
New York City. Prepared by Miss Gibbons' School, New York City.

HELEN CECILIA COALE, ... *Group, Biology and Chemistry,* 1885–88.
Baltimore, Md. Prepared by Miss Pindell's School, Baltimore, Md.

JULIA COPE, ... *Group, Biology and Chemistry,* 1885–88.
Philadelphia, Pa. Prepared by Miss Burnham's School, Northampton, Mass.

HELENA STUART DUDLEY, ... *Group, Biology and Chemistry,* 1885–88.
Denver, Colorado. Massachusetts Institute of Technology, 1884–85.

LOUISE R. ELDER, ... *Group, Greek and Latin,* 1885–88.
Philadelphia, Pa. Prepared by Mrs. L. M. B. Mitchell's School, Philadelphia, Pa.

SUSAN BRALEY FRANKLIN, ... *Group, Greek and Latin,* 1885–88.
Newport, R. I. Prepared by Rogers' High School, Newport, R. I.

FRANCES BIDDLE GARRETT, ... *Group, Biology and Chemistry,* 1885–87.
Logan P. O., Philadelphia. Prepared by Miss Lily White's School, and by Miss Creath, Germantown, Pa.

MARY RHOADS GARRETT, ... *Group, Biology and Chemistry,* 1885–87.
Rosemont, Pa. Prepared by Miss Rachel Ashbridge's School, now Girton School, Haverford, Pa.

ALICE ELEANORA GARRETSON, ... *Group, Greek and Latin*, 1886–88.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

LEAH GOFF, ... *Group, Biology and Chemistry*, 1885–88.
Bryn Mawr, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

ALICE BACHE GOULD, ... *Group, Mathematics and Physics*, 1886–88.
Cambridge, Mass. Prepared by Miss Ireland's School, Boston, Mass,

EMELINE GOWEN, ... *Group, Greek and Latin*, 1885–88.
Mt. Airy, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

JANE BOWNE HAINES, ... *Group, History and Political Science*, 1887–88.
Cheltenham, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

ELIZABETH HARRIS, ... *Group, Greek and Latin*, 1886–88.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

HARRIET FRAZIER HEAD, ... *Group, Latin and* ——— 1887–88.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

EMILY CUMMING HOWE, ... *Group, Greek and German*, 1887-88.
Princeton, N. J. Prepared by Mr. J. R. Bishop, Princeton, N. J.

ANNA HARRIS HOY, ... *Group, History and Political Science*, 1885–87.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

MARY E. HOYT, ... *Group, English and Latin*, 1887–88.
Rome, Georgia. Prepared by Shorter College, Rome, Georgia.

MABEL HUTCHINSON, ... *Group, Greek and Latin*, 1885–88.
Des Moines, Iowa. Classical Course, Penn College, 1884-85.

MARY JEFFERS, ... *Group, Greek and Latin*, 1887–88.
Lincoln University P. O., Pa. Classical Course, Wellesley College, 1885-86.

KARIE K. KERSHAW, ... *Group, Greek and Latin*, 1886–87.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

ABBY KIRK, ... *Group,* ——— 1887–88.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa,

CAROLINE LAWRENCE, ... *Group, History and Political Science*, 1885–88.
Saratoga Springs, N. Y. Art Student, Smith College, 1883-84; Special Student, 1885.

MARY HUNTER LINN, ... *Group,* ———, 1887–88.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

GERTRUDE MASON LYNCH, ... *Group,* ——— 1887–88.
Washington, D. C. Prepared by Girls' Classical School, Indianapolis, Ind.

MARIAN WILHELMINA MACINTOSH, *Group, Greek and Mathematics*, 1886–88.
Philadelphia, Pa. Prepared by Miss Gibson's School, Philadelphia, Pa.

MARY MCMURTRIE, ... *Group, History and Political Science*, 1885–88.
Philadelphia, Pa. Prepared by Private Study.

AGNES LOUISE ORBISON, ... *Group, Biology and Physics*, 1886–88.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

ETHEL PARRISH, ... *Group,* ———, 1887-88.
Radnor, Pa. Prepared by Miss Case's and Miss Hallowell's School, Philadelphia, Pa.

MARGARET M. PATTERSON, ... *Group, Greek and Latin*, 1886–88.
Denver, Col. Prepared by Pension Lacorne, Paris, France, and Denver High School.

MARY GRAFTON PATTERSON, ... *Group, French and German,* 1886–88.
Denver, Col. Prepared by Pension Lacorne, Paris, France. and private study.

CAROLINE E. PAXSON, ... *Group, French and German,* 1885–88.
New Hope, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

GRACE PINNEY, ... *Group,* ——— 1887–88.
New York City. Prepared by Mont Clair High School, N. Y., and two years in Europe.

ANNA POWERS, ... *Group, Greek and Latin,* 1886–88.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia.

HARRIET RANDOLPH, ... *Group, Biology and Chemistry,* 1885–88.
Philadelphia, Pa. Prepared by private study.

ANNA E. RHOADS, ... *Group, Greek and Latin,* 1885–88.
Bryn Mawr, Pa. Prepared by Friends' School, Germantown, Pa., and private study.

ELLA RIEGEL, ... *Group, History and Political Science,* 1885–88.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia.

FLORENCE RUSHMORE, ... *Group,* ———, 1885–86.
Plainfield, N. J. Prepared by Friends' School, Providence. R. I.

EDITH F. SAMPSON, ... *Group, Biology and Chemistry,* 1886–88.
Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa.

LILIAN VAUGHAN SAMPSON, . . . *Group, Mathematics and Physics,* 1887–88.
Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa.

JANE SCOFIELD, ... *Group, German and Latin,* 1886–88.
Sandy Springs, Md. Graduate Mt. Holyoke Seminary, South Hadley, Mass., 1886.

KATHERINE MORRIS SHIPLEY, ... *Group, English and Latin,* 1885–88.
Cincinnati, O. Prepared by Bartholomew English and Classical School, Cincinnati, O.

ANNA PEIRCE SHOEMAKER, ... *Group, Biology and Chemistry,* 1887–88.
Philadelphia. Pa. Prepared by Friends' Central School, Philadelphia, Pa.

ALYS WHITALL SMITH, ... *Group, French and German,* 1885–88.
Philadelphia, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

EMILY JAMES SMITH, ... *Group, Greek and Mathematics,* 1885–88.
Canandaigua, N. Y. Prepared by Mr. J. H. Lee and Mr. D. L. Satterthwaite, Canandaigua, N. Y.

MARGARET ARMSTRONG STEEL, *Group, History and Political Science,* 1886–88.
Port Deposit, Md. Prepared by Miss Anable's School, Philadelphia, Pa.

MARY STEPHENS, ... *Group,* ———, 1887–88.
Cedar Rapids, Iowa. Prepared by Coe Preparatory School and College, Cedar Rapids, Iowa.

ELEANOR JANE STEVENSON, *Special Student in German and History,* 1886–87.
Pittsburgh, Pa. Graduate of Pennsylvania Female College, 1886.

HARRIET STEVENSON, ... *Group, Mathematics and Physics,* 1887–88.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind. Scientific Course, Wellesley College, 1885–86.

ANNA VAUGHAN SWIFT, ... *Group,* ———, 1887–88.
Wilmington, Del. Prepared by Miss E. D. Fraser's School, Wilmington, Del., and by Mr. W. A. Reynolds, Wilmington.

ANNE TAYLOR, ... *Group, English and French,* 1885–88.
College Hill, Cincinnati, Ohio. Prepared by Belmont College, College Hill, Ohio.

MARGARET CHESTON THOMAS, ... *Group, French and German,* 1885–88.
Baltimore, Md. Prepared by Miss Pindell's School, Baltimore, Md.

MARTHA GIBBONS THOMAS, ... *Group, Biology and Chemistry,* 1885–88.
Whitford, Pa. Prepared by private instruction.

MARY GRACE THOMAS, ... *Group, History and Political Science,* 1885–87.
Baltimore, Md. Prepared by Mr. Christie, Graduate Student, Johns Hopkins University.

LUELLA H. THORNE, ... *Group, Greek and Mathematics,* 1885–87.
Skaneateles, N. Y. Skaneateles Union School and Academy, N. Y.

EMILY R. VAIL, ... *Group, Greek and Latin,* 1886–87.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

EVANGELINE HOLCOMBE WALKER, . . . *Group, Greek and Latin,* 1887–88.
Indianapolis, Ind. Girls' Classical School, Indianapolis, Ind.

MATHILDE WEIL, ... *Group, English and French,* 1887–88.
Philadelphia, Pa. Prepared by Mr. and Mrs. L. M. Johnson's School, Philadelphia, Pa.

SOPHIA WEYGANDT, ... *Group, Greek and Latin,* 1885–88.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

MARGARET COOPER WHITALL, . . . *Group, Biology and Chemistry,* 1885–88.
Germantown, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

KATHERINE TABER WILLETS, ... *Group, Greek and Latin,* 1886–88.
New York City. Prepared by Miss Anna C. Brackett's School and by Mrs. Julia J. Irvine, New York City.

ELLEN AUGUSTA WINSLOW, ... *Group,* ———, 1887–88.
Saccarappa, Maine. Prepared by Friends' School, Providence, R. I.

MARIAN A. WRIGHT, ... *Group, Greek and Latin,* 1887–88.
Germantown, Pa. Special Student, Smith College, 1883–84. Prepared by Miss Florence Baldwin, Bryn Mawr, Pa.

Bryn Mawr College.

Bryn Mawr College, situated at Bryn Mawr, Pennsylvania, ten miles from Philadelphia, was endowed by Dr. Joseph W. Taylor, of Burlington, New Jersey, who proposed to found an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education that are so freely offered to young men." The site of the college was purchased and the buildings were begun during the lifetime of the founder, who died in 1880. In the same year the college was incorporated by the authority of the State of Pennsylvania, and invested with power to confer degrees. A circular of information was issued by the Trustees in 1883. A President and a Dean of the Faculty were elected in the spring of 1884. During the remainder of the year 1884 plans were matured and appointments made in the Faculty; in the autumn a second circular of information was issued, and an office at which to receive applications was opened in Philadelphia. The courtesy of the presiding officers and instructors of existing universities and colleges facilitated an acquaintance with the prevalent collegiate systems; and the domestic organization of the women's colleges, Vassar, Smith, and Wellesley, received careful consideration. To the Johns Hopkins University acknowledgment is especially due, since from it has been borrowed the system of major and minor electives in fixed combination. In the spring of 1885 the first program was issued, and the college opened for instruction in the following autumn with forty-four students.

College Calendar.

The present academic year closes June 8th, 1888. The lectures and class-work of the fourth academic year will begin October 1st, 1888, at 9 o'clock, and will end June 6th, 1889, at 3 o'clock.

Examinations for matriculation will be held during the week preceding the opening of each academic year, and also during the last week of each academic year.

In the year 1888 the examinations will be held in the following order

June, 1888.		*September*, 1888.	
5.		26.	
Algebra,	9—12	Algebra,	9—12
Geometry,	3—6	Geometry,	2—5
6.		27.	
Arithmetic,	9—10½	Arithmetic,	9—10½
English,	10½—12½	English,	10½—12½
Greek,	3—6	Greek,	2—5
Elements of Some Science,	3—5	Elements of some Science,	3—5
7.		28.	
Latin,	9—12	Latin,	9—12
Physical Geography,	2—3	Physical Geography,	2—3
French,	3—6	French,	3—6
8.		29.	
History,	9—11	History,	9—11
Solid Geometry and Trigonometry,	10—1	Solid Geometry and Trigonometry,	10—1
German,	3—6	German,	2—5

There will be a winter recess from December 20th, at 3 o'clock to January 3d, at 9 o'clock; and a spring recess from April 17th, at 3 o'clock, to April 24th, at 9 o'clock.

The first semester will end February 8th; half yearly examinations will be held during the last week of the semester, and instead of a recess at Washington's birthday, there will be a recess of two days before the beginning of the next semester, February 13th.

Admission Blank forms of application for admission should be obtained from the President.

Three classes of persons will be admitted to the lectures and class-work of the college; namely, graduate students, undergraduate students, and hearers.

Graduate Students. Graduate students must have presented a diploma from some college of acknowledged standing. They may pursue the advanced or graduate courses offered by the college, although the instructors in the several departments may require of them cer-

tain introductory or auxiliary studies; they are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations, from the instructors. Their needs will be considered in the arrangement of new courses of lectures.

Fellows.

The most distinguished place among graduate students will be held by the Fellows. Five Fellowships are awarded annually —one in Greek, one in English, one in Mathematics, one in History and one in Biology. They are awarded as an honor and are intended to be an indorsement of previous attainments; they entitle the holder to free tuition, a furnished room in the college buildings, and the sum of three hundred and fifty dollars yearly.* They are open to graduates of Bryn Mawr College, or of any other college of good standing. No one may compete that has not a college degree or a certificate of prolonged study under well-known instructors; and, generally speaking, the Fellowship will be given to the candidate that has studied longest or whose work affords the best promise of future success. All applications should be made as early as possible, and must be made by the 15th of April preceding the year for which the Fellowship is desired. Blank forms will be forwarded to the applicant. A definite answer will be given within four weeks from the last date fixed for application. The holder of a Fellowship is expected to show, by the presentation of a thesis, or in some other manner, that her studies have not been without result. All Fellows may study for the degree of Doctor of Philosophy, the Fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts.

Undergraduate Students.

Undergraduate students must have fulfilled the requirements for matriculation. The studies leading to the degree of Bachelor of Arts are stated on page 18. Those students, that do not wish to study for a degree, are required to enroll themselves as special students; they will, nevertheless, in the event of a change of plan be credited with such of their studies as may have coincided with the studies leading to a degree. All special students must have passed the examination for matriculation. Attention is called to the fact that the Group system enables all candidates for a degree to specialise in one or more subjects.

Special Students.

* Board will be charged at the regular college rates of $150 for the scholastic year.

Hearers. Hearers will be excused from passing the matriculation examination: but they will be strictly distinguished from matriculates, and will not be entitled to reside in the college. They must be women of at least twenty-five years of age, and must furnish proof that they have at some time pursued the studies included in the matriculation examination. They must satisfy the several instructors that they can profit by the courses that they desire to follow, and their admission to recitations, examinations, and laboratory exercises, will depend on the express consent of the instructor in charge. Hearers differ moreover from special students in that they are not recognised by the College, and can receive only such certificates of collegiate study as may be given them by the several instructors. They cannot receive degrees.

Examination for Matriculation. The examination for Matriculation will also be open to those that wish to take it as a test of proficiency in elementary studies, but have no intention of entering the college.

Examinations are held in June and September of every year at Bryn Mawr College and in Baltimore. Examinations in other cities will be arranged for later.

Candidates may divide the examination between two successive years; if, however, more than one calendar year and the summer recess elapse between the two parts of the examination, the first part of the examination must be repeated.

Every candidate for matriculation that does not present a certificate of honorable dismissal from some college or university of acknowledged standing, must be examined in the following subjects, omitting, should she desire to do so, German or French, or Greek (any one of them), but not Latin, and in no case presenting for examination less than three languages, exclusive of English:*

* But candidates that have passed the Harvard University examinations for women held in Cambridge, New York, Philadelphia, and Cincinnati will be admitted, whenever the examination has covered the same or equal grounds in the subjects required for matriculation in the college. The following subjects are suggested as equivalents: All the "elementary studies" except one language, which must not be Latin; and the "advanced studies" in the three remaining languages, together with the advanced examination in Latin composition, and if Greek is taken, in Greek composition. The advanced examinations in Mathematics (18 and 19) will be regarded as equivalent to the examination in Solid Geometry and Trigonometry.

The certificate of honorable dismissal from another college of acknowledged standing will be accepted under similar limitations. In no other cases will certificates be accepted.

Mathematics.—(1) *Arithmetic.* Since many complicated parts of arithmetic are simplified and explained by the study of the higher mathematics, candidates are advised to offer only the following portions of school-arithmetic: Fundamental Rules; Fractions; Decimals; Discount; Percentage; Simple and Compound Interest; Proportion; Compound Numbers and the Metric System, all tables necessary to the student being given; Square root. (2) *Algebra*, through Quadratic Equations; Ratio; Proportion; Variation; Arithmetical and Geometrical Progression. (3) *Plane Geometry.*

All candidates that do not in addition to the above present *Solid Geometry* and *Trigonometry* must pursue these branches in the college and pass an examination in them before receiving a degree. It is especially recommended that those intending to elect mathematical courses should pass the entire matriculation examination in mathematics. These candidates are advised to confine themselves to Algebra; Plane Geometry of the straight line and the circle; Solid Geometry and Trigonometry. More benefit will be derived from a thorough acquaintance with the pure geometrical methods, than from a little knowledge of Analytical Geometry.

Note. Students whose matriculation examination has included either Solid Geometry, or Trigonometry, or both, will be credited with the time which others must subsequently spend upon these studies.

Latin.—(1) *Grammar and Composition.* There will be questions testing the candidate's practical knowledge of grammar, including prosody, and translation of English into Latin. (2) *Cæsar*, Gallic War, Books I.–IV. (or, if desired, *Ovid*, Metamorphoses, two thousand lines). *Cicero*, seven orations, including the four against Catiline. (3) *Virgil*, Æneid, Books I.–VI. (or the Eclogues and five books of the Æneid). Translation at sight of easy passages with due allowance for unusual words.

Note 1. Equivalents will be accepted to some extent, but all candidates must have read (*a*) Cicero, at least four orations, (*b*) Virgil, at least three books of the Æneid.

Note 2. The so-called Roman method of pronunciation, as explained in Allen and Greenough's Latin Grammar, is recommended.

Note 3. As many schools are introducing the "natural method" as a substitute for thorough grammatical training, attention is called to the fact that special stress will be laid on an accurate and ready knowledge of grammatical forms. A knowledge of paradigms and parts of irregular verbs will be insisted upon.

Note 4. The examination in Latin may be divided in the following manner only: (*a*) Grammar, Composition, Cæsar, and Cicero; (*b*) Virgil and sight reading.

Greek.—(1) *Grammar and Composition.* Simple Greek Composition (White's First Lessons in Greek and Jones's Exercises in Greek Prose or Equivalents). (2) *Xenophon*, Anabasis, Books I.–IV. (3) *Iliad*, Books I.–III., with questions on grammar suggested by the text. Translation at sight of easy passages

from Xenophon and the Iliad, with due allowance for unusual words.

Note 1. Equivalents will be accepted to some extent, but all candidates must have read (*a*) Homer, at least two books of the Iliad, (*b*) Xenophon, at least two books of the Anabasis or Memorabilia.

Note 2. The examination in Greek may be divided in the following manner only: (*a*) Grammar, Composition, and Xenophon; (*b*) Iliad and sight reading.

French.—There will be three examinations in French, one to test the candidate's knowledge of pronunciation and ordinary grammatical forms, the other two her power to read at sight ordinary French prose and verse.

Note 1. For the examination in reading no texts are assigned, the examination being intended to test the candidate's ability to read any ordinary French whatsoever. Candidates preparing for these examinations are advised to acquire as large a vocabulary as possible.

Note 2. The examination in French cannot be divided.

German.—The examination in German will be precisely similar to that in French, and will test the candidate's pronunciation, knowledge of ordinary grammatical forms, and ability to read ordinary German at sight.

Note 1. The examination in German cannot be divided.

Note 2. The candidate may omit one of the three languages, Greek, French, or German, selecting Greek and French, or Greek and German, or French and German.

History. The outlines of the History of England and the United States; *or* the outlines of the History of Greece and Rome.

Note 1. Students that expect to enter the classical courses are advised to offer the outlines of Greek and Roman History. All others are advised to offer the outlines of English and United States History.

Note 2. Johnston's History of the United States, Thompson's History of England, Dr. Smith's Shorter History of Greece, and Leighton's History of Rome are recommended.

English.—Each candidate for matriculation will be required to correct specimens of bad English, and to write a short composition upon a subject assigned by the examiner. The composition must be correct in spelling, grammar, punctuation, expression and general arrangement.

Abbott's "How to Write Clearly" is recommended.

In 1888 candidates should be familiar with the following works, from one or more of which the subject will be taken: *Burke*, Reflections on the French Revolution; *Landor*, The Citation and Examination of William Shakespeare; *Chaucer*, The Knight's Tale.

Note. As a substitute for Landor's Citation and Examination of William Shakespeare the following dialogues, included in the selected edition of Landor's Imaginary Conversations (Camelot Classics, 1886), will be accepted: Queen Elizabeth and Cecil; Leofric and Godiva; Essex and Spenser; Lord Brooke and Sir Philip Sidney.

In 1889 candidates should be familiar with *Shakespeare*, Julius Cæsar, and As You Like It; *Carlyle*, Heroes and Hero Worship; *Ruskin*, Sesame and Lilies; *Chaucer*, The Clerk's Tale.

Note. A critical study of the works is not required.

Natural Science.—All candidates must pass an examination in the elements of *Physical Geography*.

Note. Guyot's Physical Geography is recommended.

Candidates that omit Greek must also pass an examination in the elements of *Physics*, *Chemistry*, *Botany* or *Physiology*.

Note. Balfour Stewart's Primer of Physics, Roscoe's Primer of Chemistry, Gray's "How Plants Grow," and Foster's Primer of Physiology are strongly recommended.

Tabular Statement of Requirements for Matriculation.

The following tabular statement of the requirements for matriculation is appended for the convenience of the candidate:

All candidates for matriculation *must* be examined in the following three groups:

I.	II.	III.
Mathematics: Arithmetic, 1. Algebra, 1. Plane Geometry, 1.	*Latin*: (Grammar and Composition, Cæsar and Cicero,) 2. Virgil and sight reading, 1.	*History*, 1. *English*, 1. *Science*, 1.

All candidates for matriculation *must* be examined in one of the following groups:

IV.	IV.	IV.		
Greek: Gram. and Comp., Xenophon, 2. Iliad and sight reading, 1. *and* *French*: Grammar, Prose, Poetry, 3.	*or*	*Greek*: Gram. and Comp., Xenophon, 2. Iliad and sight reading, 1. *and* *German*: Grammar, Prose, Poetry, 3.	*or*	*French*: Grammar, Prose, Poetry, 3. *and* *German*: Grammar, Prose, Poetry, 3.

The figures attached to the required subjects show the sections into which the examination is divided; the figure 1, for example, shows that the subject is regarded as one section, and so forth. Where a bracket precedes the figure, the subjects enclosed by the bracket cannot be separated in the examination. Should the candidates pass in fewer than four sections in the first division of the examination, the entire examination must be repeated.

The candidate *may* be examined in the following subjects, and if not examined, must pursue them in college:

Advanced Mathematics: Solid Geometry, Plane Trigonometry.

A fourth language: *Greek* (as above) *or* *French* (as above) *or* *German* (as above).

Remarks on Examination for Matriculation.

All subjects potentially included in the examination for admission are regarded by the college as preparatory and non-collegiate. The college course of instruction in mathematics, for example, does not include but presupposes trigonometry;

the courses in French and German presuppose a reading knowledge of these languages.

It is therefore to the interest of every student to offer, at entrance, advanced mathematics, and if possible all four languages; remembering that even to fail in such of these examinations as are not strictly obligatory, will not affect the candidate's collegiate standing, and that to pass them successfully would leave her nearly free for elective study under the Group system and for true collegiate work. Great pains have been taken in the organization of the collegiate courses; and it is not desirable that the time of students within the college should be needlessly withdrawn from these and spent upon preparatory work.

Studies Leading to the Degree of Bachelor of Arts.

No student will be graduated who does not at the time of graduation possess a reading knowledge of French and German and some acquaintance with Latin and Greek. The College provides beginners' classes, five times weekly throughout one year, for those students who in the examination for matriculation may have omitted Greek, French or German; but attendance on these classes is not obligatory, the student being free to make good her deficiencies by private reading.

The following course of study must be pursued by every candidate for the degree of Bachelor of Arts.

Required Studies.

English, see page 31.

Science, or *Science and History*, *i.e.*, any one of the major courses, or two of the following minor courses in Science: Physics, see page 44, Chemistry, see page 45, Biology, with special reference either to plant or animal life, see page 47; or else any one of the minor courses, together with one of the following courses in History: Ancient History, see page 38, Modern History, see page 39.

Philosophy, see page 37.

Group.

Two Major Courses, of two years each, constituting one of the following "Groups:" Any language with any language, see pp. 27–37; Mathematics with Physics, see pp. 41–44; or Mathematics with Greek or Latin, see pp. 27–30, 41; any science with any science, see pp. 43–49; History with Political Science, see pp. 38–41.

Free Electives.

Free Electives, five hours weekly for a year and a half, to be chosen by the student. It should be observed that a single study may be taken as a Free Elective, without electing the

group that includes it. Students wishing to combine Physics with either Chemistry or Biology must take at least a half year of Mathematics as a Free Elective.

The student may consult the Dean of the Faculty in regard to the details and best arrangement of the various studies.

The students are not divided into the traditional college classes, nor is there any time set for graduation; in order to pursue a wider course of reading in connection with single subjects, or to attend a greater variety of lectures, the ablest students may choose to defer graduation, and, on the other hand, the usual period of collegiate study may be abridged; personal considerations only will determine the time spent in completing the studies required for a degree. Nevertheless, these requirements constitute strictly a Four Years' Course; that is to say, if the usual time given to lectures and class-work be computed at fifteen hours weekly, a student that passed the ordinary matriculation examination, and availed herself of the preliminary courses of the college on the subjects which that examination did not include, would in all cases require precisely four years.

For a more detailed explanation of the Group system, see page 22.

The Bryn Mawr European Fellowship.

The Bryn Mawr European Fellowship will be awarded annually to a graduate of Bryn Mawr College, on the ground of excellence in scholarship. The holder will receive the sum of five hundred dollars, applicable to the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the college.

Studies Leading to a Second Degree.

Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may, at their discretion, enroll themselves as candidates for the Degrees of Doctor of Philosophy and Master of Arts. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

The Degree of Doctor of Philosophy.

All candidates for the degree of Doctor of Philosophy and Master of Arts, must pursue for three years, after having received their first degree, a course of liberal (non-professional) study at some college or university approved by the Faculty, and spend at least two of these years at Bryn Mawr College. They must be examined in two, and may at their discretion be examined in three subjects (the examination being of equal difficulty in either case); and must present a satisfactory dissertation on some topic included in their first or principal subject. They may be required to pursue certain auxiliary studies in connection with the subjects that they have elected; and the degree of Doctor of Philosophy, like that of Bachelor of Arts, will be given to no one who cannot read French and German, or who is wholly unacquainted with Latin and Greek. The dissertation must be printed. The degree of Doctor of Philosophy will in no case be conferred by the college as an honorary degree.

The Degree of Master of Arts.

Candidates for a separate degree of Master of Arts, which will be conferred only on graduates of Bryn Mawr College, must reside at the college for at least one year after graduation, and pursue and pass an examination on a course of liberal study approved by the Faculty.

Residence.

Residence in the college is not obligatory. During the years 1885–88 students living in Philadelphia or in the neighborhood of Bryn Mawr have attended the daily lectures and class-work of the college; others, finding it inconvenient to return home every day, have resided in the college for five days of every week.

The college buildings intended for residence contain single rooms and sets of rooms. The houses will accommodate about fifty students, and each house will be under the care of a lady who will reside in the building. There will be no common refectory, nor any inter-dependence between the houses. Compare the accompanying descriptions of Merion Hall and of Radnor Hall, which the other houses will resemble in the essential parts of their internal arrangement, such as furniture, heating, and light; compare also the general account of the buildings on page 50.

Expenses.

The charge for tuition is one hundred dollars a year, irrespective of the number of courses attended, or of the actual time of attendance. It is the same for undergraduate students,

graduate students, and hearers. An additional charge of fifteen dollars a year is made for materials, in every laboratory course.

A special exception will be made in favor of non-resident medical students and physicians, who will be charged for a single course in chemistry or biology fifty dollars, and for two courses one hundred dollars, the laboratory charges being the same for them as for other students. A course is held to be five hours weekly of lectures and class-work throughout the year.

The charge for board and residence will be two hundred and fifty dollars a year for each student occupying a single room, and three hundred dollars for each student occupying, together with another student, a set of three rooms. Students that remain at the college during the winter and spring vacations will be charged seven dollars, or eight and a half dollars weekly, according to the rooms occupied. The charge for a student occupying a bedroom and private study will be four hundred dollars, and in vacations ten dollars a week.

Note. The charge for board and residence includes all expense of service, heating and light, except open fires and washing. There are open fire-places in nearly all the studies, but the rooms will be sufficiently heated by steam. A fixed annual charge is made for washing (see the description of Merion Hall and Radnor Hall).

The charge for tuition is accordingly $100 a year, payable in advance.

The charge for board and residence is $250, $300 (or in special cases $400) a year; one-half payable half-yearly in advance.

The charge for board, residence and tuition is, therefore, $350 and $400 (or in special cases $500) a year.

Note. A STUDENT'S EDUCATIONAL FUND has been established for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed will be distributed by the college in the form of partial aid, and in most cases as a loan. It will be applied to the assistance of those students only who have attended courses in the college for at least one year.

Scholarships.

Three partial scholarships of $200 each will be open to members of the Society of Friends that are unable to pay the full charge for tuition and residence. When there are more than three applicants the candidates will be selected by competitive examination, and in no case can the scholarship be held by any one that has not passed the matriculation examination with credit. These scholarships will be for one year only, but may be renewed until graduation, when the progress of the student is satisfactory to the Faculty.

INSTRUCTION.

Libraries. The College Library will be as far as possible a library for special study, and is open for the use of the students from eight A.M. to ten P.M. every day. The most important scientific, literary and philological reviews are taken, and the sum of three thousand dollars is expended yearly, under the direction of the heads of the several collegiate departments. The library has at present 5250 bound volumes, and is catalogued according to the Dewey system.

In Philadelphia there are the following important libraries :

The *Philadelphia Library*, which contains about 145,000 volumes. The library will at all times be open to the students for consultation. Subscription, $12.00 a year for eight volumes, or $10 for nine months.

The *Mercantile Library*, which contains 150,000 volumes. Subscription, $6.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains 30,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

Laboratories. The chemical laboratory consists of a lecture-room, a working laboratory, preparation and balance rooms and a chemical library. The supply of apparatus and chemicals has been carefully selected for the purposes of instruction and research, and is increasing from year to year. The chemical library contains besides necessary treatises and reference books several complete sets of chemical journals. A similar suite of five rooms is appropriated to the biological department ; it includes two laboratories, one of which is exclusively botanical. The biological laboratories are equipped with the best (Zeiss) microscopes, microtomes, etc., and are supplied with a small but well-selected set of apparatus for the study of experimental physiology. A temporary building containing a physical laboratory and lecture-room was furnished with apparatus and opened in the autumn of 1887. The chemical, biological and physical laboratories are open for students throughout the day.

The Group System. It is much to be desired that all undergraduate students should enroll themselves as candidates for the degree of Bachelor of Arts, and, therefore, that they should understand the precise scope and nature of the studies leading to that degree, and the

significance of the Group system. A proper understanding of the Group system is, moreover, essential in order to comprehend the distribution and arrangement of the courses of instruction.

In all departments as yet organised there is a course of five hours a week for two years, called a Major Course. Whenever one year of this course is of such a nature that it can be taken separately, it is marked as a Minor Course. It is required of every candidate for a degree to take two such major courses as shall be homogeneous, or shall complete each other, and major courses which fulfil this condition are designated as Groups. It is meant that the student, under this system, should lay the foundations of a specialist's knowledge; and the Required Studies, namely, English, philosophy and science, or history and science, are intended in part to supplement the Group, and in part to ensure a more liberal training than could be achieved did every student combine elective studies at pleasure. The two years' required course in English includes a general introduction into the study of language. English literature will be treated with steady reference to the comparative history of literature; and the entire course will be so planned as to give unity and domestic application to the pursuits of students of philology, and to acquaint students of science or of history, in so far as this is possible in a special course, with the results, scope, and methods of the study of language and literature. The required two years in science, or in science and history, permit the student of chemistry and biology to pursue both branches of the biological course, or to take a major course in physics; and they ensure to the student of history and of language, for one year at least, the same kind of instruction and discipline as is received by the scientific student. The one year's course in philosophy is a general introduction into the study of the laws, conditions, and history of thought.

Tabular Statement.

A tabular statement of the courses leading to a degree is prefixed for the sake of clearness:

*Minor Courses (One Year Each).**

1. and 2.	3.	4.	5.	†[6.]	†[7.]
English. *Two Courses.*	Philosophy.	Science, Physics, or Chemistry, or Biology.	Science or History.	French, or German, or Greek.	Solid Geometry and Trigonometry.

Two Major Courses (Two Years Each).

Constituting any one of the following groups:

I.	II.	III.	IV.	V.
Any language with any language.	Any science with any science.	Mathematics with Greek or Latin.	Mathematics with Physics.	History with Political Science.

Free Electives.

Five hours weekly for a year and a half.

The "Minor Courses" in the above table are known as the Required Studies; the "Two Major Courses" as the Group. All studies whatsoever fall under one of these heads, Required Studies, Group, or Free Electives.

The following combinations of studies are suggested as specimens of a few of the many combinations that may be made by students that are candidates for a degree, yet wish to specialise.

Classics. *As Required Studies*, English, Philosophy, Science, (Physics, Chemistry, or Biology, animal or vegetable), Ancient History [French or German], *As a Group*, Greek and Latin. *As Free Electives*, advanced Greek and Latin, with or without Sanskrit.

Modern Languages (other than English). *As Required Studies*, English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History, [Greek, French, or German]. *As a Group*, French and German, or Latin and French. *As Free Electives*, Spanish or Italian.

English. *As Required Studies*, English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History, [Greek, French, or German]. *As a Group*, French and English, or Greek and English. *As Free Electives*, German or Latin.

Mathematics (with Latin). *As Required Studies*, English, Philosophy, Physics, Ancient History, [Greek, French, or Ger-

* Except 7. (*One half year*).

† See page 18, under "Studies leading to the degree of Bachelor of Arts."

man]. *As a Group*, Mathematics and Latin. *As Free Electives*, Advanced Mathematics.

Mathematics (with Physics). *As Required Studies*, English, Philosophy, Chemistry, Biology, [Greek, French, or German], *As a Group*, Mathematics and Physics. *As Free Electives*, Advanced Mathematics, or Physics.

History. *As Required Studies*, English, Philosophy, any Science, any Language, (Greek, Latin, English, German, French, Italian, or Spanish), [Greek, French, or German]. *As a Group*, History and Political Science. *As Free Electives*, History of German, or of French, Literature.

Science. *As Required Studies*, English, Philosophy, Physics, Botany, [Greek, French, or German]. *As a Group*, Chemistry and Biology (animal). *As Free Electives*, Botany, or Physics (second year).

The following combinations might be adopted by those that wish to pursue a major course in History or Science, yet not to elect an historical or a scientific group.

I. *As Required Studies*, English, Philosophy, any Science, Ancient History, [Greek, French, or German]. *As a Group*, any Language with any Language, or Chemistry with Biology or Physics. *As Free Electives*, Modern History.

II. *As Required Studies*, English, Philosophy, Physics, Chemistry, [Greek, French, or German]. *As a Group*, any Language with any Language. *As Free Electives*, second year in Chemistry, or one year in Biology (animal or vegetable).

Since the time of graduation is determined only by the completion of the prescribed course, there is an entire freedom from over-pressure. All matriculated students may receive the degree of Bachelor of Arts when the prescribed course of study has been satisfactorily completed. On the other hand, as is shown by the recognition of special students, it is not required of any one to apply for a degree; and no degree will be conferred unless the course have been completed with credit.

Lectures.

It is the object of the lectures to give a clear and succinct statement of facts and principles; to enumerate and criticise with frankness hand-books, authorities, and editions; to touch upon minor or far-lying points with such distinctness as may enable the student to investigate them intelligently at some future day; to bring the student's knowledge down to date, and

to inform her, step by step, what things have been definitely ascertained and what things remain to be investigated. It is intended that the notes taken on these lectures, in addition to their immediate practical use, shall be of lasting value for reference, and be the starting-point, or at least the schedule, of studies to be undertaken subsequently. Every isolated student knows how difficult it is to be initiated into the modern scholastic movement otherwise than orally ; and, therefore, in addition to the lectures, the several instructors will appoint certain hours in which the students may consult them freely.

The lectures will be accompanied by class-work, and by frequent examinations ; they will be strictly special, not popular.

The Professors or Associates appointed are the recognised heads of their departments, and only such instructors have been chosen as are qualified to direct both graduate and undergraduate work.

Courses of Study. There will be offered each year a minor course in Philosophy, and major, or two-year courses, of five hours instruction weekly in the following subjects: Greek, Latin, English, German, French, Italian, Spanish, Mathematics, Physics, Chemistry, both branches of Biology, History, and Political Science.

Graduate courses are offered in Sanskrit and Indo-European Philology, Greek, Romance Languages, Teutonic Languages, Anglo-Saxon, English, Political Science, Mathematics, Chemistry, and Biology.

Courses in Language and Literature. The courses in language and literature are meant, first of all, to be complete in themselves, and extensive enough to meet the needs of special students ; and secondly, to facilitate the study of comparative philology or of comparative literature. Whenever it has been practicable, as in all the modern languages, one-half of the major course has been devoted to strictly linguistic studies, and the other half to the history of literature. In the major courses in Greek and Latin, the customary text-reading will be supplemented by lectures on the history of literature; the advanced course in Greek will ultimately be constructed on the model of a major course, one year being devoted to comparative philology and Sanskrit, and one to literary studies and the reading of difficult texts. Courses of parallel reading will be required of all students of language and literature, precisely as laboratory work is required of the students of chemistry or biology ; these courses are intended to acquaint

the students with the works of numerous authors, and it is especially hoped that students of Greek and Latin will, by this means, accustom themselves to read these languages constantly and without assistance.

The courses in ancient and modern languages will be of equal difficulty, and will be placed on a footing of equality. The traditional separation between ancient and modern languages has been disregarded, because, although strictly classical students may always be inclined to combine Greek and Latin, there is, nevertheless, no modern literature of which the study may not fitly be preceded, or supplemented, by the study of Latin or Greek.

Courses in Science.

The attention of medical students, or those looking forward to the study of medicine, may be called to the facilities offered by the scientific laboratories. The value of a practical knowledge of biology and chemistry as preliminary or accessory to the professional study of medicine is generally recognised. Through the courtesy of the Woman's Medical College of Pennsylvania, and the Woman's Medical College of the New York Infirmary, allowance will be made in their professional courses for work carried on at Bryn Mawr in the scientific laboratories. Students of Bryn Mawr College that have completed major courses in chemistry and biology will be released from the first year's, or primary, examination in these colleges, and from laboratory practice in chemistry and biology.

Greek courses offered in 1888–89:

GREEK.

Beginner's course.

A course of five hours weekly throughout the year will be provided for those students whose examination for matriculation did not include Greek. This course is required of candidates for the degree of Bachelor of Arts. Students that desire to continue the study of Greek are expected to read more Greek than is required of the other students, in order that in the ensuing year they may pass the entrance examination and enter upon the first year of the major course.

First Year.

(*Minor Course.*)

1*st Semester.*

Major Course.

Xenophon, *Memorabilia*, Dr. Hopkins. *Twice weekly.*

Odyssey, *Selections*, Dr. Shorey. *Twice weekly.*

Exercises in Greek Prose Composition, Dr. Hopkins. *Once weekly.*
Private Reading, Plato, *Apology.*

2*nd Semester.*

Iliad, *Selections*, Dr. Shorey. *Twice weekly.*
Euripides, *Medea*, Dr. Hopkins. *Twice weekly.*
Exercises in Greek Prose Composition, Dr. Hopkins. *Once weekly.*
Private Reading, Sophocles, *Ajax.*

Second Year.

1*st Semester.*

Lectures on the History of Greek Poetry, Dr. Hopkins. *Twice weekly.*
Herodotus, *Selections;* Æschylus, *Persæ*, Dr. Shorey. *Twice weekly.*
Æschylus, *Prometheus*, Dr. Hopkins. *Once weekyl.*
Private Reading, Sophocles, *Electra.*

2*nd Semester.*

Lectures on the History of Greek Prose, Dr. Shorey. *Twice weekly.*
Demosthenes, *De Corona*, Dr. Hopkins. *Twice weekly.*
Lectures on Greek Grammar, Dr. Hopkins. *Once weekly.*
Private Reading, Isocrates, *Panegyricus.*

The usual second year's work of the Major Course may be divided so as to cover a period of two years; but the lectures on literature must be taken, and the reading course of two hours must, if elected, be taken for both semesters.

The first year's work may not be divided.

Examinations on the courses of private readings will be held at the end of each semester.

Group. Greek with any language, or with Mathematics.

Post Major Courses.

Four courses, extending through the year, are offered to those that have completed the Major Course.

Pindar, *Selections*, Dr. Shorey. *Once weekly.*
Plato, Republic (continued); Introduction to Aristotle's Ethics, Dr. Shorey. *Once weekly.*
Selections from the Dramatic Poets. / *or* / Æschylus, *Eumenides.* } Dr. Hopkins. *Once weekly.*
Sanskrit for Beginners. / *or* / Lucian, *Selections.* } Dr. Hopkins. *Once weekly.*

For further Post Major work, see Post Major Latin, page 30.

Graduate Courses.

Advanced work in Greek is provided for graduate students. The instruction is divided into two courses of one year each, one philological, comprising Sanskrit and Comparative Philology, and one critical and literary consisting of the reading of difficult texts and of special studies in the history of literature. Either course may be taken separately. These courses will be varied from year to year, according to the needs of the students and at the discretion of the instructor, so that graduate students may attend them for more than two semesters.

The Post Major courses are open to graduate students.

A large part of the work expected of graduates will consist of reading, under direction of the department, and reports of works thus read will from time to time be required of the student.

In 1888–89 the following graduate courses will be offered:

1*st Semester.*

(*a*) Lectures on Comparative Philology, Dr. Hopkins. *Once weekly.*

(*b*) Sanskrit Grammar, with selections from Lanman's Reader, *or* Drama, *Selections*, } Dr. Hopkins. *Once weekly.*

(*c*) Æschylus, *Oresteia*, *or* Lucian, } Dr. Hopkins. *Once weekly.*

(*d*) Greek Archæology (Sculpture), Dr. Smyth. *Once weekly.*

(*e*) Greek Dialects, Dr. Smyth. *Once weekly.*

2*nd Semester.*

(*a*) Attic Inscriptions, Dr. Hopkins. *Once weekly.*

(*b*) Selections from the Rig Veda, *or* Thucydides (Seminary), } Dr. Hopkins. *Once weekly.*

(*c*) Greek Lyric Poets, Dr. Hopkins. *Once weekly.*

(*d*) Greek Archæology (Sculpture), Dr. Smyth. *Once weekly.*

(*e*) Homer (Seminary), Dr. Smyth. *Once weekly.*

LATIN.

Major Course.

In 1888–89 the Major Course will be as follows:

First Year.

(*Minor Course.*)

1*st Semester.*

Horace, *Selections* (may be taken as a Free Elective), Dr. Shorey. *Twice weekly.*

Sallust, *Jugurtha*, Dr. Smyth. *Twice weekly.*
Latin Prose Composition, Dr. Smyth. *Once weekly.*
Private Reading, Virgil, *Æneid VII., VIII.*

2nd Semester.

Horace (continued); Virgil, *Selections*, with lectures on the poetry of the Augustan age (may be taken as a Free Elective), Dr. Shorey. *Twice weekly.*
Livy, *book XXI*, Dr. Smyth. *Twice weekly.*
Latin Prose Composition, Dr. Smyth. *Once weekly.*
Private Reading, Virgil, *Æneid IX., X.*

Second Year.

1st Semester.

Lectures on Latin Literature, Dr. Shorey. *Once weekly.*
Juvenal, *Selections*, Dr. Shorey. *Once weekly.*
Tacitus, *Annals*, *Selections*, Dr. Smyth. *Twice weekly.*
Lectures on Latin Grammar, Dr. Hopkins. *Once weekly.*
Private Reading, Pliny, *Selected Letters.*

2nd Semester.

Lectures on Latin Literature, Dr. Shorey. *Once weekly.*
Catullus, and Martial, Dr. Shorey. *Once weekly.*
Plautus, Tibullus, and Propertius, Dr. Smyth. *Twice weekly.*
Specimens of Early Latin, Plautus, *Trinummus*, Dr. Hopkins. *Once weekly.*
Private Reading, Cicero, *Selected Letters.*

Group. Latin with any language, or with Mathematics. Especially recommended, Latin and Greek; Latin and French; Latin and Spanish or Italian.

Post Major Courses.

Advanced Course in Latin Literature (Lectures and Reports on special topics), Dr. Shorey. *Once weekly.*

This course may also be taken as a Free Elective in Greek. Reports in that case will be made on topics connected with Greek Literature.

Rapid Reading of Latin (text undetermined), Dr. Shorey. *Twice weekly.*

ART.

During the present year Professor Arthur L. Frothingham, Jr., of Princeton College, has delivered a course of lectures on Greek and Roman Architecture. These lectures have been de-

livered fortnightly throughout the last five months of the year, and are illustrated by the stereopticon; they begin with a cursory glance at the architecture of the earliest civilization of Egypt, Babylonia and Assyria. Greek architecture is studied in the following order: Prehistoric and Homeric architecture; origin, history, characteristics and principal monuments of the Doric order;—of the Ionic; polychromy in Greek architecture and sculpture; sculpture as an accessory to architecture. A survey of the architecture of the previous nationalities, Etruscan and non-Etruscan, Umbrian or Pelasgic, precedes that of the architecture of Rome in the kingly and republican periods and under the Empire, and of Roman architecture in the East.

ENGLISH.

Required Course.

The required course consists of lectures on literature and language, in which the history of English literature will be regarded as far as possible from the point of view of the historian of European literature generally (see page 23), and courses of private reading which are meant to familiarise the student with classical English authors. There will be frequent examinations on the private reading. The student is advised to attend the course during her first year in college.

First Year.

1*st Semester.*

Lectures on the English language.

Five times weekly during the first two months.

Reading of Skeat and Morris, *Specimens of Early English, Part II.* *Once weekly during the remainder of semester.*

Lectures on the history of Anglo-Saxon literature; with an introduction into the study of early Germanic literature and mythology. *Four times weekly during the remainder of the semester.*

2*nd Semester.*

Lectures on the history of English literature to the time of Chaucer, inclusive, with an introduction into the study of French mediæval literature. *Four times weekly.*

Reading of Chaucer. *Once weekly.*

Second Year.

1*st Semester.*

Lectures on the history of English literature from Chaucer to the Restoration, exclusive; with a short account of Italian literature. *Five times weekly.*

2*nd Semester.*

Lectures on the history of English literature from the Restoration to the present time; with a short account of the literature of France in the 17th and 18th centuries. *Five times weekly.*

Parallel courses of private reading are arranged in connection with the lectures. Essay writing will form part of each year's work.

The courses of the first and second year will be given alternately, and may be attended in reverse order.

Major Course. The Major Course in English, which may be elected in combination with the Major Course in any other language, presupposes as much information as is contained in the Required Course. In that it has been preceded by two years' study, it differs slightly from the other Major Courses of the College, and is intended for graduate students or for those undergraduate students who are exceptionally anxious to specialise in English. Either year may be taken separately by students that have completed the Required Course.

First Year.

(*Language—Minor Course.*)

1*st Semester.*

Major Course. Anglo-Saxon Grammar and Reading of Anglo-Saxon Texts. *Five times weekly.*

The course in Anglo-Saxon begins with Siever's Anglo-Saxon Grammar and the prose contained in Sweet's Anglo-Saxon Reader. A thousand lines of Beowulf are read, and portions of Beowulf or of Beowulf literature (episodes, armor, customs, etc.) are assigned for special study. In 1887–88 written translations of the parts of Avitus and of the Anglo-Saxon Genesis, corresponding to Paradise Lost, were made by the students and compared with Paradise Lost.

2*nd Semester.*

Reading of Piers Plowman. *Four times weekly.*

Wülcker *Kleinere Angelsächsische Dichtungen.* *Once weekly.*

In 1887–88, the alliterative romances of the West of England were assigned for special study, each student taking one or more.

Second Year.

(Literature—Minor Course.)

Special study of particular authors or periods, the choice of subjects being regulated in part by the needs of the students. The year is essentially a year of seminary work and essay writing. *Five times weekly.*

In 1888–89, Matthew Arnold (for prose style): Shelley and his group, in the first semester, and the non-dramatic poetry from Spenser to Vaughan, in the second semester, will be the central subjects. The private reading and essay-writing may be on any subjects connected with these, and need not be the same for all students.

Group. English with any language.

Either year of the English Major may be taken as a free-elective by students that have completed the two years of required English.

Graduate Courses.

There will be a course of graduate instruction in Anglo-Saxon every year.

The graduate instruction in English literature will be arranged in some measure to suit the students, and will include the direction of private reading and the assignment of topics for investigation.

GERMAN.

Beginners' Class.

A class for beginners in German, five hours weekly throughout the year, will be provided, in order that those students whose matriculation examination did not include German may with less difficulty obtain the reading knowledge of it that they must possess before receiving a degree. By great diligence such students may, it is hoped, acquire sufficient knowledge to be admitted, should they desire it, into the Major Course in German.

Conversation Class.

A class for German conversation will meet, in the afternoon or evening, three times weekly throughout the year. It may be attended by any student that has passed the matriculation examination in German.

Major Course.

The Major Course presupposes as much knowledge as is implied by the matriculation examination in this subject. Either the first or second year of the Major Course may be taken as a Minor Course.

First Year.

(*Literature—Minor Course.*)

History of German Literature from the earliest times to the time of Klopstock, exclusive. *Twice weekly.*

These lectures, which will be delivered in German, will begin with the account of German civilization found in classical authors, and will include Ulfilas, the time of Charlemagne, the fragments of heathen poetry, the Hêliand, Otfried, the Nibelungenlied, and the Heldenbuch, the time of Wolfram, Gottfried, Hartmann, the Minnesingers and Meistersingers, Sebastian Brandt, Hans Sachs, etc.

Max Müller, *The German Classics.* *Once weekly.*

Goethe, *Faust* (1*st Part*). *Once weekly.*

German Conversation Class. *Twice weekly.*

The private reading on which an examination will be held at the end of the year is as follows: Lessing, *Minna u. Barnhelm;* Goethe, *Hermann u. Dorothea, Iphigenie;* Schiller, *Wilhelm Tell, Jungfrau u. Orleans.*

Second Year.

(*Language—Minor Course.*)

The History of German Literature from Klopstock to the present time. *Twice weekly.*

These lectures will be delivered in German and will treat the great classical authors as well as the most modern poets and novelists.

They are open as a 'Free Elective' to all students that have passed the matriculation examination in German.

Reading of Middle High German Texts. *Twice weekly.*

The course begins with Schadel and Kohlrausch *Mhd Elementarbuch.* Hartmann v. Aue, *Der Arme Heinrich,* and parts of the Nibelungenlied and of Walter v. d. Vogelweide are translated into modern German.

German conversation class. *Twice weekly.*

The private reading on which an examination will be held at the end of the year is as follows: Lessing, *Nathan d. Weise;* Goethe, *Egmont, Tasso;* Schiller, *Maria Stuart, Wallenstein;* Bern, *Nhd Lyrik;* Scheffel, *Ekkehard.*

Group. German with any language.

Graduate Courses.

In 1888–89 the following graduate courses are offered:

Gothic. *Once weekly.*

Historical German Grammar (conjugation). *Once weekly.*

Reading of Middle High German Texts. *Twice weekly.*

FRENCH.

Beginners' Class.

An introductory course, resembling the introductory course in German, will be provided for the convenience of those students who, in their matriculation examination, omitted French.

Conversation Class.

A class for French conversation will meet in the afternoon or evening, three times a week. It may be attended by any student that has passed the matriculation examination in French.

Major Course.

The Major Course in French presupposes as much knowledge as is required for the matriculation examination in that subject. Either the first or second year can be taken as a Minor Course, the two years together forming a Major.

The lectures are delivered in French.

First Year.

(*Minor Course.*)

Lectures on the History of French Literature of the 14th, 15th, 16th and 17th Centuries. *Three times weekly.*

French Conversation. *One and a half hours weekly.*

French Composition. *Once weekly.*

The lectures being delivered in French, the notes taken by the students will be submitted to the instructor, and one hour weekly will be devoted to grammatical criticism or needful instruction in style.

The private reading on which an examination will be held is as follows: four plays of Corneille; nine of Molière; six of Racine; two of Voltaire and the Siècle of Louis XIV.; *Le Joueur* and *Le Legat Universel* of Regnard; *L'Epreuve* and *Le Legs* of Marivaux; *Le Mariage de Figaro;* Diderot's *La Religieuse* and *Le Neveu de Rameau;* and parts of Malesherbe, Regnier, Pascal, La Bruyère, Fenelon, *Gil Blas,* and Rousseau.

Second Year.

(*Minor Course.*)

1*st Semester.*

Lectures on the History of French Literature of the 18th and 19th century. *Four times weekly.*

French Composition. *Once weekly.*

The private reading on which an examination is held is as follows: Chateaubriand, *Atala, René, Aventures du dernier Abencerrage, Genie du Christianisme*

(2d part, books 1st, 2d, 3d); Mme de Staël, *De l'Allemagne, Corinne;* Béranger, *Selected Chansons;* Barbier, *Iambes* (*La curée*); Lamartine, *Meditations* (*Le lac*), *Jocelyn, Graziella;* Alfred de Vigny, *Poemes Antiques et Modernes* (*Moïse, Da Neige, Le Cors*), *Cinq Mars;* Victor Hugo, *Orientales* (*La douleur du Pacha, La Sultane favorite, Le Deviché, Mazeppa*); *Contemplations;* Vigny, *Châtiments* (*Souvenir de la Nuit du 4., L' Expiation*) *Les Quare vents de l'Esprit* (*La Révolution*), *L'Art d'Être Grandpère, Préface de Cromwell, Hernani, Notre Dame de Paris, Quatre-vingt treize, Les Misérables;* Alfred de Musset, *Selected Poems and Dramas;* George Sand, *Jacques, Expiation, La Marquise, La Mare au diable;* Merimée, *Contes et Nouvelles* (*Colomba, Carmen, Matteo Falcone*); Balzac (*Le Pére Goriot, Eugénie Grandet*); Th. Gautier, *Le Capitaine Fracasse, Voyage en Espagne.*

It will be required of the student to prepare French essays or translations, and one hour weekly will be devoted to grammatical criticisms of these essays, or to needful instruction in grammar and style.

The courses of the first and of the second year will be given alternately.

Group. French with any language.

Graduate Courses. Special courses in Old French, and in Romance Philology and Romance Dialects, will be given for graduate students. The work will vary from year to year.

ITALIAN.

First Year.

(*Language—Minor Course.*)

Major Course. Historical Grammar of the Italian Language, terminating with reading of Italian Texts. *Five times weekly.*

This course comprises a philological introduction into the study of Italian, translation of English into Italian, and class exercises in pronunciation and reading. Private reading will be assigned towards the close of the year.

Second Year.

(*Literature.*)

History of Italian Literature, and special study of Dante. *Four times weekly.*

Composition and Reading. *Once weekly.*

The Private Reading in this course will include selections from Petrarch, Boccaccio, Manzoni, and Leopardi.

Examinations on the courses of private reading will be held from time to time.

The courses of the first and of the second year will not be given simultaneously.

Group. Italian with any language.

SPANISH.

First Year.

(*Language—Minor Course.*)

Historical Grammar of the Spanish Language, terminating with reading of Spanish Texts. *Five times weekly.* ***Major Course.***

Second Year.

(*Literature.*)

History of Spanish Literature, with reading of selections from the most important texts. *Four times weekly.*

Composition and Reading. *Once weekly.*

The Private Reading in this course will include selections from Cervantes, Calderon, Moratin, and Fernon Cabellero.

The courses of the first and of the second year will not be given simultaneously.

Group. Spanish with any language.

PHILOSOPHY.

A course in Philosophy of five hours weekly throughout one year is required of all candidates for the degree of Bachelor of Arts.

1*st Semester.*

Elements of Logic, by Professor FULLERTON. *Twice weekly in the first half of the semester.*

Elements of Psychology, by Professor FULLERTON. *Twice weekly throughout the remainder of the semester.*

Physiological Psychology (lectures and demonstrations), by Dr. CATTELL. *Once weekly.*

Christian Ethics, by President RHOADS. *Once weekly.*

In the first part of the course, the lectures will treat of the theory of ethics, and, in connection with this discussion, there will be given a brief history of ethical systems. The subsequent and larger part of the course will be occupied with an examination of the moral teachings of Christianity, and their applications.

Lectures on the Bible and Biblical Study, by Professor RENDEL HARRIS. *Once weekly.*

2*nd Semester.*

Lectures on the History of Philosophy, by Professor FULLERTON. *Twice weekly.*

Physiological Psychology (lectures and demonstrations), by Dr. CATTELL. *Once weekly.*

Christian Ethics, by President RHOADS. *Once weekly.*

Lectures on the Bible and Biblical Study by Professor RENDEL HARRIS. *Once weekly.*

HISTORY.

The courses indicated suggest the topical plan of instruction which is to be followed. The histories of Greece and Rome are taken as representative of ancient history, those of France and England as representative of mediæval and modern history; and in following those special lines the work of the classes will consist largely in the preparation by individuals of reports on specific topics and important episodes in the histories studied. These reports will be founded, not only upon the text-books used, but also upon all the standard authorities available.

Constant text-book drill will be combined with instruction by means of frequent lectures, whose object will be to give life to the narrative of the text-book used in recitation, by recounting the most important contemporary events in the history of other countries, and by pointing out the chief and most memorable characteristics of the periods studied, as well as the philosophical connection of leading facts and tendencies. The general purpose of the lectures will be to group and explain facts separated in the narrative, subordinating them to broader views of history.

The courses on the Italian Renaissance and the German Reformation will be lecture courses.

Each year's work will be introduced by a brief course of lectures on the philosophy of history and on methods of study.

First Year.

(*Ancient History—Minor Course.*)

I. History of Greece. *Five hours a week on alternate weeks during the first semester.*

In this course, lectures are given on such topics as the reforms of Solon and of Cleisthenes, the causes of the Persian invasion, the character and influence of the Confederacy of Delos. As the history of the popular states of Greece turns largely upon the individnal characters and influence of leading men, class reports are required on the antecedents, lives, and work of the principal statesmen, dramatists, and orators.

II. History of Rome.

Five hours a week on alternate weeks during the first semester, and five hours weekly throughout most of the second semester.

In this course the lectures deal with such topics as the sources of Roman his-

tory, the causes, means, and ends of Roman conquest, Roman provincial administration, agrarian troubles, the characters, aims, and reforms of the Gracchi.

In both courses, text-book drill is made prominent, but more especially in Roman history, because the internal history of Rome, down to the time of the empire, turns upon class struggles and consequent legal and constitutional reforms which can be mastered in no other way.

The plan of conducting work in both Greek and Roman history simultaneously, the two courses alternating with each other, week by week, is adopted in order that the histories of the two countries may run parallel up to the point where Greek history is merged into Roman by conquest, with a view to enable the student when hearing lectures to perceive for herself contrasts and likenesses.

III. European History from the fall of the Western Empire to the establishment of the Empire of Charles the Great.

Lectures five hours a week during the last week of the second semester.

Second Year.

(Modern History—Minor Course.)

History of France. *Three times weekly, on alternate weeks throughout the year.*

History of England. *Three times weekly, on alternate weeks throughout the year.*

Italian Renaissance and German Reformation.

Twice weekly during the first semester.

Lectures on special topics in American History.

Twice weekly during the second semester.

The topics selected for the lectures on American history will be such as the following: the foundation of the colonies; the contest between England, Spain, and France for the possession of America; contrasts in colonial life and manners; the causes of the Revolution; the second war with Great Britain; the great westward migration; the Missouri compromise; the history of parties, with special reference to the rise and influence of the Federalist party.

Either year of the major course in history may be taken separately as a minor course.

Two years of history may be taken without the course in political science, by electing one year of history as a minor course and a second year as a free elective.

Group. History and Political Science. Students that elect this group may take, as required studies, instead of one year of science and one year of history, one year of science and one year of any language (Greek, Latin, English, French, German, Italian, or Spanish).

POLITICAL SCIENCE.

First Year.

(Minor Course.)

Elements of Political Economy. Modern Socialism and Communism. *Three times weekly throughout the year.*

Comparative study of the political institutions of the United States. *Twice weekly throughout the year.*

Second Year.

(*Minor Course.*)

History of Political Institutions. (Lectures.)
Twice weekly throughout the year.

English and American Constitutional History. (Lectures.)
Three times weekly during the first semester.

American State Constitutions. (Fifteen lectures.)
Three times weekly during the second semester.

European Political Revolutions. (Twenty lectures.)
Three times weekly during the second semester.

The courses of the first and second years will be given alternately, and may be attended in reverse order.

ADVANCED COURSE IN HISTORY AND POLITICS.

Graduate Courses.

The following advanced course in History and Politics has been given by Dr. Woodrow Wilson, to graduate students, in the year 1887–88. It has been planned not only with reference to the needs of those that desire to prepare themselves to be teachers in these branches, but also as a useful preparatory course for students that are looking forward to special studies in law.

1*st Semester.*

The History, Functions, and Organs of Government. Fifty lectures. *Four times weekly.*

2*nd Semester.*

1. Nature and Influence of Roman Law. Ten lectures.
2. Comparative Constitutional History. Twenty-five lectures.
3. Growth of Modern Nationalities. Eight lectures.
4. History of Political Economy. Ten lectures. *Four times weekly.*

These courses of lectures are a fuller treatment of the topics discussed by Dr. Wilson in the graduate course given by him at the Johns Hopkins University.

Throughout the year one hour a week is given to the meetings of a Seminary at which reports will be read of graduate work done privately upon topics collateral with those of the lectures.

In the year 1888–89 the following graduate courses will be offered.

1*st Semester.*

Theories, Methods, and Problems of Administration.

Four times weekly.

2*nd Semester.*

1. Nature and Influence of Roman Law. Ten lectures.
2. Comparative Constitutional History. Twenty-five lectures.
3. Growth of Modern Nationalities. Eight lectures.
4. History of Political Economy. Ten lectures.

It is planned to give one hour a week throughout the year to the meetings of a Seminary at which reports will be read of graduate work done privately upon topics collateral with those of the lectures.

The modifications of the course in subsequent years will be announced at a later time.

MATHEMATICS.

A Preparatory Course of five hours weekly throughout one semester is designed for students entering the college without a sufficient knowledge of those mathematical subjects that are optional in the entrance examination; the lectures will be adapted each year to the requirements of students taking the course; they will, generally speaking, include solid geometry and trigonometry.

The Major Course is a course in Pure Mathematics, and in the two years the students will be able to gain a fair knowledge of the principal pure mathematical subjects. It is not proposed in this course to give much study to the applications of Mathematics, but some opportunity for this will be afforded by the courses of lectures on Dynamics, and by an alternative course in the final semester. The subjects in this alternative course will be arranged by the instructor with a view to the needs of students intending to take the graduate course. The points of contact of Mathematics with other branches of mental and physical science will be indicated as far as possible throughout

the course, special attention being paid to the nature of mathematical reasoning, and to the true relation and mutual dependence of Mathematics and Physics, in order that students may obtain just ideas of the scope and province of Mathematics. The course of lectures on the history of Mathematics in the second year is intended to give an outline of the development of the subject from its beginning to 1700 A. D.

First Year.

(*Minor Course.*)

1*st Semester.*

Major Course.

Algebra, advanced Trigonometry, and Theory of Equations, (*a*) Mr. Harkness. *Twice weekly.*

Analytical and Modern Geometry of Two Dimensions, (*b*) Dr. Scott. *Twice weekly.*

Newton and Elementary Dynamics, (*c*) Dr. Scott. *Once weekly.*

2*nd Semester.*

Elementary Differential and Integral Calculus, (*d*) Mr. Harkness. *Twice weekly.*

Analytical and Modern Geometry of Two Dimensions, (*e*) Dr. Scott. *Twice weekly.*

Newton and Elementary Dynamics, (*f*) Mr. Harkness. *Once weekly.*

Second Year.

1*st Semester.*

Differential and Integral Calculus, (*g*) Mr. Harkness. *Three times weekly.*

Analytical Geometry of Three Dimensions, (*h*) Dr. Scott. *Twice weekly.*

2*nd Semester.*

Differential Equations and Elements of Finite Differences, (*i*) Mr. Harkness. *Twice weekly.*

Analytical Geometry of Three Dimensions, Dr. Scott; *or*, Applied Mathematics, (*j*) Mr. Harkness. *Twice weekly.*

History of Mathematics, (*k*) Dr. Scott. *Once weekly.*

Seminary (throughout the course). *Twice weekly.*

The work for either year may be divided so as to cover a period of two consecutive years. The division must be made as follows:

FIRST YEAR'S WORK, ... { 1st *Half* { 1st *Semester* (*a*). 2d *Semester* (*b*).
2d *Half* { 1st *Semester* (*c*) *and* (*e*). 2d *Semester* (*d*) *and* (*f*).

SECOND YEAR'S WORK, ... { 1st *Half* { 1st *Semester* (*g*). 2d *Semester* (*i*) [*and* (*k*)].
2d *Half* { 1st *Semester* (*h*). 2d *Semester* (*j*) [*and* (*k*)].

Group. Mathematics with Physics, or Mathematics with Greek or Latin.

The Free Elective course in Mathematics (one year and a half) consists of the first year's work (divided, if desired), with (*g*), and (*h*) or (*i*) of the second year's work. With the approval of the instructor (*k*) may be substituted for an equivalent part of (*h*) or (*i*).

Graduate Courses.

The lectures in the Graduate Course will be varied from year to year; so that, while each year will be complete in itself, a graduate may, if she wish, attend for more than two consecutive semesters. This course will be open in part as a Free Elective to students that have completed the Major Course in Mathematics, with special permission from the instructor.

In the year 1888–89 the following courses of lectures will be offered:

Higher Plane Curves, Modern Algebra, and Theory of Equations, Dr. Scott. *Three times weekly.*

Differential Analysis, Mr. Harkness. *Twice weekly.*

Seminary work, lectures in the History of Mathematics, and courses of lectures on Modern Geometry, Advanced Solid Geometry, Theory of Functions, Theory of Numbers, etc., will be arranged according to the requirements of graduate students taking the course.

PHYSICS.

The course in Physics extends through two years, but in the first year an elementary treatment of all the subjects is given. Those that take this year only will thus become familiar with the general subject of Physics.

The lectures are based upon text-books wherever satisfactory ones can be found.

For the first year's course a knowledge of the elements of

Trigonometry is required. No knowledge of Physics is presupposed.

In the second year use is made of Differential and Integral Calculus. The lecture courses (*b*), (*c*) and (*d*) of the mathematical Minor Course will cover the required ground. These courses will, if desired, be given in the second semester, thus making with the Required Mathematics of the first semester a total of five hours throughout the year. Students not wishing to elect Mathematics with Physics as a Group, can count this half-year's work as their half-year of "Free Elective."

First Year.

(*Minor Course.*)

1*st Semester.*

Mechanics and Electricity.	*Five times weekly.*
Laboratory work.	*Three hours weekly.*

2*nd Semester.*

Sound, Heat and Light.	*Five times weekly.*
Laboratory work.	*Three hours weekly.*

The laboratory work of the first year is intended to illustrate and impress the principles of the subject and to serve as an introduction to physical measurement.

Second Year.

Lectures throughout the year.	*Five times weekly.*
Laboratory work throughout the year.	*Four hours weekly.*

The lectures on Mechanics deal especially with some of the more important applications to physical problems. Those on Sound, Heat, Light, and Electricity consist of an extension of the treatment of the first year, and an attempt is made throughout the year to bring the students in contact with the work of original investigators.

The laboratory work of the second year consists of specially selected problems, involving accurate measurements, and of the discussion of the errors involved in such problems.

Group. Physics with Mathematics; Physics with Chemistry; or Physics with Biology (animal or vegetable).

CHEMISTRY.

Instruction in Chemistry for undergraduates will be given by means of lectures, examinations, and laboratory practice. This course extends over a period of two years, and consists of five

lectures and a minimum of six hours' of laboratory work weekly during both years. The chief object of the instruction is to give students a thorough and systematic knowledge of chemical phenomena, and a clear conception of the relations existing between observed facts and the general theories of the science. While chemical analysis plays an important part in the instruction given during a portion of the course, it is taught only as an application of the knowledge of chemical facts which the student has already acquired.

First Year.

(Minor Course.)

1st Semester.

Introduction to General Chemistry (Lectures). *Five times weekly.*
Laboratory work. *Six hours weekly.*

The lectures of the first semester are a general introduction to chemistry. The more important properties of the elements and their compounds are considered, and a thorough study is made of the facts upon which the general laws of chemical action are based.

The laboratory is open for the first year's students six hours weekly. The laboratory work begins with a series of exercises in manipulation and in the more frequently occurring chemical operations. The students will be taught the use of accurate measuring and weighing apparatus, and be made familiar with the calculations employed in quantitative work. Analysis will be taught only incidently, and not as the chief object of the science. While studying the more important properties of the elements and their compounds, considerable attention will be devoted to a study of the quantitative relations of the substances with which the students work.

2nd Semester.

General Chemistry (Lectures). *Five times weekly.*
Laboratory work. *Six hours weekly.*

The lectures and exercises during the second semester will be a continuation of the work of the first semester. The laboratory work will consist of a systematic study of the properties and behavior of the more important elements and compounds, and of a repetition of the more instructive experiments that have been previously performed in the lecture room.

Second Year.

1st Semester.

Lectures on Analytical and Physical Chemistry. *Five times weekly.*
Laboratory work. *Six hours weekly.*

The lectures of the first portion of the semester of the second year's course will be upon the methods of Analytical Chemistry. Processes for the detection,

separation, and estimation of elements will be considered. These will be followed by lectures upon Stoichiometry and Theoretical Chemistry.

Throughout the year the students will work in the laboratory six hours weekly. Their work will be upon the subjects considered in the lectures; great care is taken to avoid a mere mechanical use of analytical tables, the student being encouraged to devise analytical methods without aid, using only the knowledge that she actually possesses.

2nd Semester.

Lectures on Carbon Compounds. *Five times weekly.*

Laboratory work. *Six hours weekly.*

The subject of the lectures during the second semester will be the chemistry of the hydrocarbons and their derivatives. The laboratory work will be continued as in the first semester, the greater portion of the course being devoted to Analytical Chemistry. Towards the end of the semester, some of the typical carbon compounds will be prepared and studied in the laboratory.

Graduate Courses. Opportunities for advanced study and research are provided for graduate students that have already such a knowledge of chemistry as would be obtained by taking the two years of work laid down for undergraduates, and for others who, although not graduates, are competent to follow the advanced courses profitably. The advanced work will consist in exercises intended to give the student a comprehensive knowledge of chemical methods and operations, in difficult and typical preparations, and in researches on assigned topics. Advanced students will be required to become familiar with the literature bearing on their practical work. A knowledge of French and German will therefore be necessary. There will also be lectures from time to time upon selected topics, and upon the more recent researches in organic and inorganic chemistry.

BIOLOGY.

The instruction in Biology includes two major courses which, as at present arranged, coincide throughout the first year (minor course). The work of the first year forms a general introduction to the subject through a broad comparative study of living things (General Biology). In the second year two independent courses are given; one in Animal Morphology and Physiology (*A*), the other in Botany (*B*). Five lectures, or other class exercises, and six hours' laboratory practice a week, are required throughout both years. A knowledge of the elements of Chemistry and Physics is very desirable for students entering any course in Biology.

First Year.

(*Minor Course.*)

1*st Semester.*

General Biology. *Five hours weekly throughout the year.*

Laboratory work. *Six hours weekly.*

It is the object of this course to give the student clear conceptions of the fundamental principles of vital structure and action, the outlines of general classification, and the relations of the biological sciences to one another and to other branches of science. The laboratory practice is designed to enable the student as far as possible to examine for herself the facts discussed in the lectures, to encourage the habit of exact observation, to train the eye and the hand, and to impart a knowledge of methods of practical work.

The work is not designed simply to teach the elements of Zoology and Botany, as commonly understood, but beyond this to consider plants and animals with constant reference to one another, both in their structure and in their mode of action. Stress is therefore laid on the essential facts of comparative morphology and physiology (General Biology) as illustrated by the thorough study of a few types, rather than on the *minutiæ* of classification. At the same time, the work is arranged with reference to subsequent special work in Zoology, Botany and Physiology.

The work necessarily involves an accurate study of vital phenomena in detail, which alone can form the groundwork of any real discipline in the science. The student is, however, led as far as possible to regard facts as illustrations of more general biological truths, and to estimate the importance of these truths beyond the immediate field of the specialist.

In the first semester the student examines a number of animals and plants, so arranged as to form a natural and progressive introduction to the general principles of Biology. After certain general preliminary studies on familiar and highly organized forms, the student makes a detailed examination of unicellular organisms, and from them proceeds gradually to the complex conditions of structure and function found in higher plants and animals. In the second semester attention is given mainly to the biology of flowering plants and of vertebrate animals. The course ends with a thorough study of the embryology of the chick.

As a part of the general work of the year, short courses are given in Elementary Human Physiology and in Elementary Botany and Plant Analysis; both courses vary somewhat in character and extent, according to the needs of the student.

Second Year.

A. ANIMAL MORPHOLOGY AND PHYSIOLOGY.

1*st Semester.*

General Zoology. *Three hours weekly.*

Comparative Anatomy of Vertebrata. *Two hours weekly.*

Laboratory work. *Six hours weekly.*

These courses extend the work of the first year so as to include a comprehen-

sive survey of the phenomena of animal life. The course in General Zoology comprises a systematic presentation of the more important facts of general morphology, with especial reference to the relationships and classification of animals. The course in Comparative Anatomy is devoted to the morphology of vertebrates, and is designed to serve in part as a study of vetebrate homologies, in part as a preparation for the subsequent study of Animal Physiology and Histology. In the laboratory thorough dissections are made of typical forms, illustrating the leading groups of animals, and sufficient work is required in systematic zoology to teach the student how to name and classify animals, and to learn the relations between species, genera, and the higher groups. Students looking forward to the study of medicine are recommended to devote especial attention to the anatomy of higher vertebrates and to human and comparative osteology.

2nd Semester.

Advanced Physiology and Histology. *Three hours weekly.*

Laboratory work. *Six hours weekly.*

A knowledge of scientific physiology is here conveyed by a detailed account of the microscopic structure and the mode of working of the higher animal organism. The application of this knowledge to Hygiene, Medicine, and Psychology is indicated.

The chief organs and tissues of the vertebrate body are examined with the microscope, and much practice in the preparation of histological specimens is obtained. The laboratory is equipped with a stock of physiological apparatus, and the fundamental facts of physiology and the methods of physiological inquiry are learned by means of demonstrations and experiments by the students.

Advanced Biology. *Two hours weekly.*

In this course the student is introduced to some of the leading questions of theoretical general biology. The first part of the course is devoted to the history of biological discovery, with especial reference to the development of the more important generalizations and theories of the science. The latter part is mainly occupied with a critical analysis of the theory of evolution and with discussions of the broader philosophical problems of biology, such as heredity, variation, adaptation, animal metamorphosis and kindred topics. These lectures vary somewhat from year to year, and are intended to be suggestive rather than exhaustive in character.

B. BOTANY.

The year's work in Botany is designed to give the student a thorough theoretical and practical knowledge of general botany, of which the three principal divisions, Anatomy, Physiology, and Morphology (including Systematic Botany) are treated throughout the course. Anatomy and Morphology are treated with constant reference to the function of the cells or organs under consideration, and the comparative study of classes is

conducted with more or less reference to Systematic Botany. The course in General Botany is followed by two short special courses; the one in Physiology, intended as an introduction to the methods of dealing with the more intricate problems of vegetal life; the other in Systematic Botany.

1*st Semester.*

General Botany. *Five times weekly.*

These lectures include anatomy of cell, anatomy of tissue, organography (both vegetative and reproductive), and the comparative study of cryptogams and phanerogams, from the lowest to the highest forms, the comparative study of classes being finished in the second semester.

Laboratory work. *Six hours weekly.*

2*nd Semester.*

General Botany (continued).

Five times weekly during the first half of the semester.

Special Botany (Systematic Botany and Physiology).

Four times weekly during the second half of the semester.

Laboratory Work. *Six hours weekly throughout the semester.*

Graduate Courses.

To students who have completed a major course in Biology, or who have done an equivalent amount of work, advanced courses are offered in Zoology (Comparative Anatomy, Physiology, and Embryology) and in Vegetable Anatomy and Physiology. These courses consist in part of lectures and recitations, but mainly of practical instruction in the laboratory, supplemented by courses of reading. Special topics may be selected according to the wish or abilities of the student, and pursued with direct reference to original research. In such study students are required to familiarise themselves with the literature of the subject; a knowledge of French and German is therefore indispensable.

PHYSICAL CULTURE.

The health of the students is under the care of a consulting physician, who visits the college at regular intervals, and can be freely consulted by all the students.

The gymnasium (see page 50) is open for the use of students from 9 A.M. to 10 P.M. daily. Before admission to the gymnasium each student must be examined by the Directress with reference to physical development, strength of heart, and lungs, and hereditary tendencies. The exercises prescribed will be strictly individual, varying according to the physical develop-

ment of the student; their effect will be tested by half-yearly examinations, and great pains will be taken to prevent any over-exertion.

Opportunities for Public Worship.

It was the desire of the Founder that the college should be pervaded by a simple and practical Christianity, and an endeavor will be made to promote this end.

In the vicinity of the college, there are churches of various denominations, and a Friends' Meeting House. There will be daily morning worship in the college.

COLLEGE BUILDINGS.

The college buildings are situated ten miles west of Philadelphia, on the Pennsylvania Railroad, a quarter of a mile from the Bryn Mawr Station; the neighboring country is agreeable and very healthful, and towards the west there is a fine prospect of hills. The college grounds cover forty acres, and include planted lawns and tennis courts; they are surrounded by private villas.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains the lecture-rooms and laboratories, and the offices of administration. It is the wish of the Trustees to transfer the scientific departments of the College to a new building. Taylor Hall will soon be entirely occupied by the library and by the remaining departments; and it is suggested to all persons who wish to bestow gifts on the College, to contribute to the $50,000 needed for the new building. Around Taylor Hall it is the intention of the Trustees to erect halls for the accommodation of students; descriptions of Merion Hall and of Radnor Hall are annexed to the present Program. The gymnasium is one of the most commodious yet provided for women. It contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather; a room for the Directress, to which is attached another for the examination and record of the physical development of the students, and bathrooms for use after exercise. It is open to the students at all times. This gymnasium has been built in accordance

with the system of Dr. Sargent; it is furnished with his complete apparatus, and is under the charge of a Directress who has completed his course of instruction.

Near the college is a Telegraph Office, Adams' Express Office, and United States Money Order Office. There are good roads in every direction. Riding horses and phaetons may be kept in a livery stable near the college.

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Bryn Mawr College.

PROGRAM.

1889.

PHILADELPHIA:
Sherman & Co., Printers.
1889.

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President.

John B. Garrett,
Treasurer.

David Scull, Jr.,
Secretary.

Francis T. King, Baltimore.
Charles S. Taylor, Burlington, N. J.
James Carey Thomas, Baltimore.
James E. Rhoads, Bryn Mawr.
James Whitall, Philadelphia.
John B. Garrett, Bryn Mawr.
Charles Hartshorne, Philadelphia.
David Scull, Jr., Philadelphia.
William R. Thurston, New York.
Albert K. Smiley, Lake Mohonk.
Francis R. Cope, Philadelphia.
Philip C. Garrett, Philadelphia.
Edward Bettle, Jr., Philadelphia.

Academic Appointments.

James E. Rhoads, M.D., *President of the College.*

M. Carey Thomas, Ph.D., *Dean of the Faculty and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877–78; University of Leipsic, 1879–82; Ph.D., University of Zürich, 1882; Sorbonne and the Collége de France, 1883.

Edmund B. Wilson, Ph.D., *Professor of Biology.*

Ph.B., Yale College, 1878; Fellow in Biology, Johns Hopkins University, 1879–81; Ph.D., Johns Hopkins University, 1881; Assistant in Biology, Johns Hopkins University, 1881–82; studied at the Universities of Cambridge and Leipsic, and at the Biological Station, Naples, 1882–83; Lecturer on Biology, Williams College, Mass., 1883–84; Lecturer on Comparative Anatomy and Physiology in the Massachusetts Institute of Technology, 1884–85.

Charlotte Angas Scott, D.Sc., *Associate Professor of Mathematics.*

Lincoln, England. Graduate in Honors, Girton College, Cambridge, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, Cambridge, 1880–84; lectured in connection with Newnham College, 1880–83; D.Sc., University of London, 1885.

Edward Washburn Hopkins, Ph.D., *Associate Professor of Greek, Sanskrit, and Comparative Philology.*

A.B., Columbia College, 1878; Fellow in Literature, Columbia College, 1878–81; University of Leipsic, 1878–81; University of Berlin, 1880; Ph.D., University of Leipsic, 1881; Sorbonne and the Collége de France, 1881; Assistant in Latin and Instructor in Zend, Columbia College, 1881–84.

Paul Shorey, Ph.D., *Associate Professor of Greek and Latin.*

A.B., Harvard College, 1878; University of Leipsic, 1881–82; University of Bonn, 1882; American School of Classical Studies, Athens, 1882–83; Ph.D., University of Munich, 1884.

Edward H. Keiser, Ph.D., *Associate Professor of Chemistry.*

S.B., Swarthmore College, 1880; Assistant in Chemistry in Swarthmore College, 1880–81; S.M., Swarthmore College, 1881; Fellow in Chemistry, Johns Hopkins University, 1882–84; Ph.D., Johns Hopkins University, 1884; student at the Royal School of Mines, Freiberg, Saxony, 1884; Assistant in Chemistry, Johns Hopkins University, 1884–85.

J. James Stürzinger, Ph.D., *Associate Professor of Romance Languages.*

Wylen, Switzerland. University of Marburg, 1875–76; University of Leipsic, 1876–77; Sorbonne and the Collége de France, 1877–78; Ph.D., University of Zürich, 1879; studied in London, Cambridge, and Oxford, 1879–81; Privatdocent in the University of Bonn, 1882–85.

Hermann Collitz, Ph.D., *Associate Professor of German Literature and Language.*

Bleckede, Hanover, Germany. University of Göttingen, 1875–78; University of Berlin, 1878–81; Ph.D., University of Göttingen, 1878; Privatdocent in the University of Halle, 1885–86.

Charles A. Perkins, Ph.D., *Associate in Physics.*

A.B., Williams College, 1879; Fellow in Physics, Johns Hopkins University, 1883–84, and Ph.D., 1884; Assistant in Physics, Johns Hopkins University, 1884–87.

Frederic S. Lee, Ph.D., *Associate in Physiology and Histology.*

A.B., St. Lawrence University, 1878, and A.M., 1881; Fellow in Biology, Johns Hopkins University, 1884–85, and Ph.D., 1885; studied at the University of Leipsic, 1885–86; Instructor in Physiology, St. Lawrence University, 1886–87.

JAMES HARKNESS, M.A. (*Cambridge and London*), *Associate in Mathematics.*

Derby, England. Major Scholar, Trinity College, Cambridge, 1882; Graduate in Honors (8th Wrangler), in the Cambridge Mathematical Tripos. 1885; Mathematical Exhibitioner, London University Intermediate Arts Examination, 1885; Mathematical Scholar, London University B.A. Examination, 1887.

HERBERT WEIR SMYTH, Ph.D., *Associate in Greek and Latin.*

A.B., Swarthmore College, 1876; and Harvard University, 1878; University of Leipsic, 1879–81; University of Göttingen, 1881–83; Instructor in Classics and Sanskrit, Williams College, 1883–85; Ph.D., University of Göttingen, 1884; Fellow by Courtesy and Lecturer on Greek, Johns Hopkins University, 1885–87; Reader in Greek Literature, Johns Hopkins University, 1887–88.

MARY GWINN, PH.D., *Associate in English.*

Studied at the University of Leipsic, 1879–82; University of Zürich, 1882; Sorbonne and the Collége de France, 1883; Fellow in English, Bryn Mawr College, 1885–87, and Ph.D., Bryn Mawr College, 1888.

WILLISTON WALKER, PH.D., *Associate in History.*

A.B., Amherst College, 1883; Studied at Hartford Theological Seminary, 1883–86; University of Leipsic, 1886–88, and Ph.D., 1888.

FRANKLIN H. GIDDINGS, A.B., *Resident Lecturer* (*Associate elect*) *in Political Science.*

A.B., Union College, 1877; author of "The Report on Profit-Sharing," published in the Seventeenth Annual Report of the Massachusetts Bureau of Statistics of Labor, "The Sociological Character of Political Economy," and (with Professor Clark) of "The Modern Distributive Process," etc.

ALFRED COOK, PH.D., *Associate in Philosophy.*

A.B., Northwestern University, 1877, and A.M., 1880; Ph.D., University of Halle, 1886; Fellow by Courtesy in Johns Hopkins University, 1887–88.

ROSE CHAMBERLIN, *Instructor in French and German.*

Great Yarmouth, England. Graduate in Honors, Newnham College (Mediæval and Modern Languages Tripos, First Class) University of Cambridge, England, 1886.

CHARLES FLINT MCCLUMPHA, PH.D., *Instructor* (*Associate elect*) *in Anglo-Saxon.*

A.B., Princeton College, 1885; University of Leipsic, 1885–88, and Ph.D., 1888.

MARCELLA O'GRADY, S.B., *Demonstrator in the Biological Laboratory.*

Boston, Massachusetts. S.B., Massachusetts Institute of Technology, 1885; teacher of Science in the Bryn Mawr School, Baltimore, Md., 1885–87; Fellow in Biology, 1887–89.

FLORENCE M. PEIRCE, *Librarian.*

CAROLYN C. LADD, M.D., *Director of the Gymnasium.*

Graduate of Dr. Sargent's Training School, 1884–85; M.D., Woman's Medical College of Pennsylvania, 1889.

ANNA E. BROOMALL, M.D., *Consulting Physician of the College.*

Professor in the Woman's Medical College of Pennsylvania.

IDA RICHARDSON, M.D., *Physician of the College.*

J. RENDEL HARRIS, A.M., *Lecturer on the Bible and Biblical Study.**

Professor of Biblical Languages and Ecclesiastical History in Haverford College; late Associate Professor of New Testament Greek, in the Johns Hopkins University.

AMELIA B. EDWARDS, PH.D., L.H.D., LL.D., *Non-resident Lecturer* (*Elect*) *in Archæology.*

Three lectures (*The Buried Cities of Ancient Egypt, The Story of an Egyptian Mound* and *Egypt the Cradle of Greek Art*) will be delivered in January, 1890.

* Granted leave of absence for the year 1888–89; now in Syria.

Fellows.

KATE MAY EDWARDS, *Fellow in Greek.*
Ithaca, New York. A.B., Cornell University, 1888.

MARCELLA O'GRADY, *Fellow in Biology*, 1887–89.
Boston, Massachusetts. S.B., Massachusetts Institute of Technology, 1885; Teacher of Science in the Bryn Mawr School, Baltimore, Md., 1885–87; Demonstrator in Biological Laboratory, Bryn Mawr College.

HANNAH ROBIE SEWALL, *Fellow in History.*
St. Paul, Minn. A.B., University of Minnesota, 1884; A.M., University of Michigan, 1887.

IDA WOOD, *Fellow in English.*
Philadelphia, Pa. A.B., Vassar College, 1877; studied Bryn Mawr College, 1887-88.

Honorary Corresponding Secretaries. (*See page* 18.)

(*After June*, 1889.)

MARY MCMURTRIE, A.B. (1889), 1004 *Spruce Street*, PHILADELPHIA.

SOPHIA WEYGANDT, A.B. (1889), *Upsal Street*, GERMANTOWN.

MARGARET C. THOMAS, A.B. (1889), 1228 *Madison Avenue*, BALTIMORE.

EMILY GREENE BALCH, A.B. (1889), *Jamaica Plain*, BOSTON.

ANNE TAYLOR, A.B. (1889), *College Hill*, CINCINNATI.

CATHERINE E. BEAN, A.B. (1889), *College Avenue*, SAN JOSÉ.

Students.

Graduates.

Jane M. Bancroft, ... *Fellow in History*, 1885–86.
West Stockbridge, Massachusetts. Ph.B., Syracuse University, 1877; Ph.M., 1880; and Ph.D., 1884: Professor of French Language and Literature, Northwestern University, Evanston, Illinois, 1877–85; student in the University of Zürich, 1886–87, and student in the Sorbonne and the Collége de France, 1888.

Cora Agnes Benneson, ... *Fellow in History*, 1887–88.
Quincy, Illinois. A.B., University of Michigan, 1878; LL.B., 1880; A.M., 1883.

Kitty Augusta Gage, ... *Fellow in Greek*, 1885–86.
Wilton, New Hampshire. A.B., Boston University, 1878; A.M., Cornell University, 1885; Teacher of Classics in the State Normal School, New Paltz, New York.

Mary Gwinn, ... *Fellow in English*, 1885–87.
Baltimore, Maryland. Studied at the University of Leipsic, 1879–82, and at the University of Zürich, 1882; graduate student Bryn Mawr College, 1887–88, and Ph.D., Bryn Mawr College, 1888; Associate in English, Bryn Mawr College.

Helen L. Lovell, ... *Fellow in Greek*, 1887–88.
Flint, Michigan. A.B., University of Michigan, 1887.

Gertrude H. Mason, ... *Fellow in English*, 1887–88.
San José, California. Ph.B., University of Michigan, 1876, and A.M., University of Michigan, 1888.

Lucy M. Salmon, ... *Fellow in History*, 1886–87.
Fulton, New York. A.B., University of Michigan, 1876, and A.M., 1883; Teacher of History in the Indiana State Normal School, 1883–86; Associate Professor of History, Vassar College.

Sarah E. Satterthwaite, ... *Fellow in Greek*, 1886–87.
Adrian, Michigan. A.B., University of Michigan, 1886.

Effie A. Southworth, ... *Fellow in Biology*, 1885–86.
North Collins, New York. S.B., University of Michigan, 1885; Fellow in Biology, Bryn Mawr College, 1885–86, and Student-Assistant in the Biological Laboratory, 1886–87; Assistant Mycologist of the United States Agricultural Bureau, Washington.

Anne A. Stewart, ... *Fellow in Mathematics*, 1886–87.
West Bay, Nova Scotia. Studied in University College, London, 1880–82; S.B., Dalhousie College, Halifax, Nova Scotia, 1886; Teacher of Mathematics in Miss Mary E. Stevens' School, Germantown, Pa.

Ella C. Williams, ... *Fellow in Mathematics*, 1885–86.
Watkins, New York. A.M., University of Michigan, 1880; studied under Professor Schwartz, of Göttingen, nineteen months, 1883–85; in residence at Newnham College during the spring term of 1884; Teacher of Mathematics in Miss Moses' School, 647 Madison Avenue, New York City, 1886–87; Teacher in State Normal School, Plymouth, New Hampshire.

Jeannette S. Brown, ... *Greek*, 1886–87.
Graduate Harvard Annex, 1885; Teacher of Greek, Bryn Mawr School, Baltimore, 1887–89.

Anna B. Carroll, ... *History and English*, 1888–89.
Wilmington, Ohio. A.B., Wilmington College, 1887.

AGNES EMORY, ... *Greek and Latin*, 1886–87.
Lawrence, Kansas. A.B., University of Kansas, 1884.

MARY H. FREEMAN, ... *Romance Languages*, 1885–87.
Mumford, New York. A.B., Vassar College, 1881, and A.M., 1887; Teacher in the State Normal School, New Paltz, New York.

MARY EASTMAN GALE, ... *Latin and Mathematics*, 1888–89.
Laconia, N. H. A.B., Swarthmore College, 1882.

FLORENCE HALL, ... *Gothic, Middle High German and Spanish*, 1888–89.
Swarthmore, Pa. A.B., Swarthmore College, 1880.

CAROLINE HANSELL, ... *Greek*, 1888–89.
Hartford, Conn. A.B., Vassar College, 1876.

SUSAN RACHEL HARRISON, ... *Greek and Latin*, 1885–87.
Richmond, Indiana. A.B., Earlham College, 1883.

CAROLINE E. HILLIARD, ... *Chemistry*, 1885–86.
Northboro', Mass. A.B., Smith College, 1883.

ALICE W. JACKSON, ... *History and Political Science*, 1888–89.
Germantown, Pa. A.B., Swarthmore College, 1883.

MARY A. JOHNSON, ... *Biology*, 1887–89.
New York City. L.B., Smith College, 1885, and A.M., 1888; studied at Newnham College, 1886–87.

ROSA ELLEN LEWIS, ... *English*, 1888–89.
Oskaloosa, Iowa. S.B., 1882, Penn College, Iowa, and A.M., 1885; Professor of English Literature and History, Penn College, Iowa.

SARAH ELVA LEWIS, ... *English and History*, 1888–89.
Estacado, Texas. S.B., Penn College, 1883.

DOROTHY WILBERFORCE LYON, ... *English*, 1887–89.
Meadville, Pa. A.B., Wells' College, 1887.

GEORGIANA LEE MORRILL, ... *English*, 1888–89.
Germantown, Pa. A.B., Vassar College, 1882.

JULIA BARLOW PLATT, ... *Biology*, 1888–89.
Burlington, Vt. Ph.B. University of Vermont, 1882; Harvard Annex, 1886–88.

SARAH M. POTTER, ... *English and History*, 1886–87.
Glen's Falls, N. Y. A.B., Wellesley College, 1884.

ZILLAH M. SHERMAN, ... *English*, 1887–88.
Ashtabula, Ohio. A.B., Wells' College, 1882.

MARY TREMAIN, ... *English and History*, 1886–87.
Lincoln, Nebraska. S.B., Nebraska State University, 1881.

EMILY F. WHEELER, ... *Modern Languages*, 1887–88.
Rockford, Ills. A.B., Northwestern University, 1875, and A.M., 1880.

ELLEN C. WRIGHT, ... *English and Latin*, 1888–89.
Wilmington, O. A.B., Wilmington College, 1875.

Undergraduates.

ELIZA RAYMOND ADAMS, ... *Group*, ———, 1888–89.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind., and by Miss Mary E. Stevens' School, Germantown, Pa.

GERTRUDE ALLINSON, ... *Group, English and German*, 1885–87.
Beverly, N. J. Prepared by Friends' School, Providence, R. I.

ALICE ELIZA ANTHONY, . . . *Group, History and Political Science*, 1885–89.
South Manchester, Conn. Prepared by Friends' School, Providence, R. I.

EMILY FRANCES ANTHONY, . . *Group, History and Political Science*, 1885–89.
South Manchester, Conn. Prepared by Friends' School, Providence, R. I.

ALICE HOPKINS ALBRO, ... *Group, Biology and Chemistry*, 1886–89.
Fredonia, N. Y. Prepared by Fredonia State Normal School, N. Y.

HELEN CULBERTSON ANNAN, . *Group, History and Political Science*, 1887–89.
New York City. Prepared by Mrs. Comegys' and Miss Bell's School, Chestnut Hill, Pa.

ETHELWYN MORRILL ATWATER, . . *Group, Biology and Chemistry*, 1887–89.
Millville, N. J. Prepared by Friends' Central School, Philadelphia, Pa., and by private study.

SOPHIA MEAD ATWATER, ... *Group*, ———, 1886–88.
Millville, N. J. Prepared by private study.

EMILY GREENE BALCH, ... *Group, Greek and Latin*, 1886–89.
Jamaica Plain, Mass. Prepared by Miss Ireland's School, Boston, Mass.

ANTOINETTE LOUISE BANCROFT, . . *Student in French and German*, 1888–89.
Galesburg, Ill. Special Student, Smith College, 1883–86.

ELIZABETH GRAEME BARBOUR, ... *Group, English and Latin*, 1888–89.
Richmond, Ky. Central University, Richmond, Ky., 1880–88.

JESSIE ELLEN BARRITT, ... *Group*, ———, 1888–89.
Croydon, England. Prepared by Sidcoe School, Somersetshire, England, and The Mount School, York, England.

EMMA JOSEPHINE BATTERSBY, . *Group, History and Political Science*, 1886–89.
Bryn Mawr, Pa. Prepared by Wellesley Preparatory School, Philadelphia, Pa.

CATHERINE E. BEAN, ... *Group, English and German*, 1885–89.
San José, Cal. Classical Course, University of the Pacific, San José, 1884–85.

MYRA V. BEDINGER, ... *Group, Mathematics and Physics*, 1888–89.
Anchorage, Kentucky. Prepared by Bellewood Seminary.

ALICE BELIN, ... *Group, German and Latin*, 1888–89.
Scranton, Pa. Prepared by Miss Kate Hand, Scranton, Pa.

LILLIE WATSON BIRCH, ... *Group, Greek and Latin*, 1887–89.
Philadelphia, Pa. Prepared by Girls' Normal School, Philadelphia, Pa.

ELIZABETH MILLER BLANCHARD, . *Group, Greek and Mathematics*, 1885–89.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

MARY MILES BLANCHARD, ... *Group, Biology and Chemistry*, 1885–89.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

EMILY LOUISA BULL, ... *Group, Greek and Latin*, 1887–89.
Oneonta, N. Y. Prepared by Oneonta Union School, Oneonta, N. Y.

ESTHER F. BYRNES, ... *Group, Biology and Chemistry*, 1887–89.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, Pa., and private study.

JOSEPHINE G. CAREY, ... *Student in Biology*, 1885–86.
Baltimore, Md. Prepared by Miss Reinhardt's School, Baltimore, Md.

ELIZABETH MAXWELL CARROLL, ... *Group, Greek and Latin*, 1888–89.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

LUCY EDITH CHASE, ... *Student in Latin and Mathematics*, 1888–89.
Brooklyn, N. Y. Prepared by Packer Collegiate Institute, Brooklyn, N. Y.

CORA MOTT CHILD, ... *Group, Greek and Latin*, 1887–88.
Chateaugay, N. Y. Classical Course, University of Vermont, 1885-87.

EDITH CHILD, ... *Group, Greek and Mathematics*, 1886–89.
Newport, R. I. Prepared by Dr. W. S. Child, Newport, R. I.

MABEL P. CLARK, ... *Group, English and Greek*, 1885–89.
New York City. Prepared by Miss Gibbons' School, New York City.

HELEN THEODORA CLEMENTS, . *Group, History and Political Science*, 1888–89.
Ogontz, Pa. Prepared by Ogontz School.

HELEN CECILIA COALE, ... *Group, Biology and Chemistry*, 1885–89.
Baltimore, Md. Prepared by Miss Pindell's School, Baltimore, Md.

JULIA COPE, ... *Group, Biology and Chemistry*, 1885–89.
Philadelphia, Pa. Prepared by Miss Burnham's School, Northampton, Mass.

LILIAN DIXON, ... *Student in History and Physics*, 1888–89.
Devon, Pa. Special Student in Wellesley College, 1886–88.

HELENA STUART DUDLEY, ... *Group, Biology and Chemistry*, 1885–89.
Denver, Colorado. Massachusetts Institute of Technology, 1884–85.

LOUISE R. ELDER, ... *Group, Greek and Latin*, 1885–89.
Philadelphia, Pa. Prepared by Mrs. L. M. B. Mitchell's School, Philadelphia, Pa.

ANNIE CROSBY EMERY, ... *Group, English and Latin*, 1888–89.
Ellsworth, Maine. Prepared by Ellsworth Public Schools, and by one year at school in Dresden.

HELEN ERBEN, ... *Hearer in English and German*, 1887–89.
Radnor, Pa. Prepared by private study.

L. S. FERGUSON, ... *Hearer in Latin and Greek*, 1888–89.
Belfast, Maine. Prepared by Mr. E. R. Humphreys, LL.D., of Boston, and by private study.

SARA GWENDOLEN FOULKE, ... *Hearer in Biology*, 1888–89.
Philadelphia, Pa. Prepared by Mr. and Mrs. Lewis M. Johnson's School, Phila., Pa.

SUSAN BRALEY FRANKLIN, ... *Group, Greek and Latin*, 1885–89.
Newport, R. I. Prepared by Rogers' High School, Newport, R. I.

FRANCES BIDDLE GARRETT, ... *Group, Biology and Chemistry*, 1885–87.
Logan P. O., Philadelphia. Prepared by Miss Lily White's School.

MARY RHOADS GARRETT, ... *Group, Biology and Chemistry*, 1885–87.
Rosemont, Pa. Prepared by Miss Rachel Ashbridge's School, now Girton School, Haverford, Pa.

ALICE ELEANORA GARRETSON, ... *Group, Greek and Latin*, 1886–89.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

LEAH GOFF, ... *Group, Biology and Chemistry*, 1885–89.
Bryn Mawr, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

ALICE BACHE GOULD, ... *Group, Mathematics and Physics*, 1886–89.
Cambridge, Mass. Prepared by Miss Ireland's School, Boston, Mass.

EMELINE GOWEN, ... *Group, Greek and Latin*, 1885–89.
Mt. Airy, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

EMMA LYDIA HACKER, ... *Group, History and Political Science*, 1888–89.
Saccarappa, Maine. Prepared by Friends' School, Providence, R. I.

JANE BOWNE HAINES, ... *Group, History and Political Science,* 1887–89.
Cheltenham, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa., and by Miss Creeth of Germantown.

EDITH ROCKWELL HALL, ... *Group, Biology and Chemistry,* 1888–89.
Philadelphia, Pa. Prepared by Miss Case's and Miss Hallowell's School, Phila., Pa.

ELIZABETH HARRIS, ... *Group, Greek and Latin,* 1886–89.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

FRANCES BROADHEAD HARRIS, *Group, History and Political Science,* 1888–89.
Germantown, Pa. Prepared by Miss Lambdin's School, Germantown, Pa.

HARRIET FRAZIER HEAD, ... *Group, French and Latin,* 1887–89.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

EMILY CUMMING HOWE, ... *Group, Greek and German,* 1887–89.
Princeton, N. J. Prepared by Mr. J. R. Bishop of Princeton, N. J.

ANNA HARRIS HOY, ... *Group, History and Political Science,* 1885–87.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

MARY E. HOYT, ... *Group, English and Latin,* 1887–89.
Rome, Georgia. Prepared by Shorter College, Rome, Georgia, and by private study.

FRANCES ELIZABETH HUNT, ... *Group,* ———, 1888–89.
Scranton, Pa. Prepared by School of the Lackawanna, Scranton, Pa., and by Miss Mary E. Stevens' School, Germantown, Pa.

MABEL HUTCHINSON, ... *Group, Greek and Latin,* 1885–89.
Des Moines, Iowa. Classical Course, Penn College, 1884–85.

FRANCES HAMNER JACKSON, . . . *Group, Mathematics and Physics,* 1888–89.
Richmond, Va. Prepared by St. Timothy's School, Catonsville, Md., and by private study.

MARY JEFFERS, ... *Group, Greek and Latin,* 1887–88.
Lincoln University P. O., Pa. Classical Course, Wellesley College, 1885–86.

HATTIE ELIZABETH JONES, . . *Group, History and Political Science,* 1888–89.
Vassalboro, Maine. Prepared by Oak Grove Seminary, Vassalboro, Maine, and by Miss Case's and Miss Hallowell's School, Philadelphia, Pa.

DORA KEEN, ... *Group,* ———, 1888–89.
Philadelphia, Pa. Prepared by Miss Case's and Miss Hallowell's School, Phila., Pa.

MARGARET D. KELLUM, ... *Group, English and Greek,* 1888–89.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

KARIE K. KERSHAW, ... *Group, Greek and Latin,* 1886–87, 88–89.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

ABBY KIRK, ... *Group, Greek and Latin,* 1887–89.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa,

CAROLINE LAWRENCE, ... *Group, History and Political Science,* 1885–89.
Saratoga Springs, N. Y. Art Student, Smith College, 1883–84, and Special Student, 1885.

MARY HUNTER LINN, ... *Group, Latin, Italian and Spanish,* 1887–89.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

GERTRUDE MASON LYNCH, . . *Group, History and Political Science,* 1887–89.
Washington, D. C. Prepared by Girls' Classical School, Indianapolis, Ind.

MARIAN WILHELMINA MACINTOSH, *Group, Greek and Mathematics,* 1886–89.
Philadelphia, Pa. Prepared by Miss Gibson's School, Philadelphia, Pa.

MARY TAYLOR MASON, ... *Group, History and Political Science,* 1888–89.
Germantown, Pa. Prepared by Mrs. Head's School, Germantown, Pa.

MARY MCMURTRIE, ... *Group, History and Political Science,* 1885–89.
Philadelphia, Pa. Prepared by private study.

MARY ELIZABETH MILES, ... *Group, Greek and Latin,* 1888–89.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

LILLIAN VIRGINIA MOSER, ... *Group, French and German,* 1888–89.
Syracuse, New York. Prepared by Syracuse High School, and by private study.

RACHEL L. OLIVER, ... *Group, Latin and* ———, 1888–89.
Lynn, Mass. Prepared by Lynn High School and by private study.

AGNES LOUISE ORBISON, ... *Group, Biology and Physics,* 1886–88.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

ETHEL PARRISH, ... *Group,* ———, 1887-89.
Radnor, Pa. Prepared by Miss Case's and Miss Hallowell's School, Philadelphia, Pa.

MARGARET M. PATTERSON, ... *Group, Greek and Latin,* 1886–89.
Denver, Col. Prepared by Pension Lacorne, Paris, France, and by Denver High School.

MARY GRAFTON PATTERSON, A.B., . . . *Group, French and German,* 1886–88.
Denver, Col. Prepared by Pension Lacorne, Paris, France, and by private study.

CAROLINE E. PAXSON, ... *Group, French and German,* 1885–89.
New Hope, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

KATE OELZNER PETERSEN, ... *Group, English and Latin,* 1888–89.
Brooklyn, N. Y. Prepared by Packer Collegiate Institute, Brooklyn, New York.

GRACE PINNEY, ... *Group,* ———, 1887–89.
New York City. Prepared by Mont Clair High School, N. Y., and by two years' study in Europe.

ANNA POWERS, ... *Group, Greek and Latin,* 1886–89.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia.

HARRIET RANDOLPH, ... *Group, Biology and Chemistry,* 1885–89.
Philadelphia, Pa. Prepared by private study.

ANNA ELY RHOADS, ... *Group, Greek and Latin,* 1885–89.
Bryn Mawr, Pa. Prepared by Friends' School, Germantown, Pa., and by private study.

ELLA RIEGEL, ... *Group, History and Political Science,* 1885–89.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia.

HELEN JOSEPHINE ROBINS, ... *Group, English and Latin,* 1888–89.
Bryn Mawr, Pa. Prepared by Miss Case's and Miss Hallowell's School, Phila., Pa.

FLORENCE RUSHMORE, ... *Group,* ———, 1885–86.
Plainfield, N. J. Prepared by Friends' School, Providence. R. I.

MARY JOHNSON SACKETT, ... *Group, Biology and Chemistry,* 1888–89.
Brooklyn, N. Y. Prepared by Adelphi Academy, Brooklyn, New York, and by private study.

EDITH F. SAMPSON, ... *Group, Biology and Chemistry,* 1886–89.
Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa.

LILIAN VAUGHAN SAMPSON, . . . *Group, Mathematics and Physics,* 1887–89.
Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa.

JANE SCOFIELD, ... *Group, German and Latin,* 1886–89.
Sandy Spring, Md. Graduate Mt. Holyoke Seminary, South Hadley, Mass., 1886.

KATHERINE MORRIS SHIPLEY, ... *Group, English and Latin*, 1885–89.
Cincinnati, O. Prepared by Bartholomew English and Classical School, Cincinnati, O.

ANNA PEIRCE SHOEMAKER, ... *Group, Biology and Chemistry*, 1887–89.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, Pa.

ALYS WHITALL SMITH, ... *Group, French and German*, 1885–88.
Philadelphia, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

EMILY JAMES SMITH, ... *Group, Greek and Mathematics*, 1885–89.
Canandaigua, N. Y. Prepared by Mr. J. H. Lee and Mr. D. L. Satterthwaite of Canandaigua, N. Y.

MARGARET ARMSTRONG STEEL, *Group, History and Political Science*, 1886–89.
Port Deposit, Md. Prepared by private study.

ELIZA PULLAN STEPHENS, ... *Group, French and Latin*, 1888–89.
Trenton, N. J. Prepared by Friends' Central School, Philadelphia, Pa., and private study.

MARY STEPHENS, ... *Group, Physics and* ———, 1887–89.
Cedar Rapids, Iowa. Prepared by Coe Preparatory School and College, Cedar Rapids, Iowa.

ELEANOR JANE STEVENSON, . . . *Student in German and History*, 1886–87.
Pittsburgh, Pa. Graduate of Pennsylvania Female College, 1886.

HARRIET STEVENSON, ... *Group, Mathematics and Physics*, 1887–89.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind. Scientific Course, Wellesley College, 1885–86.

ANNA VAUGHAN SWIFT, ... *Student in English and Chemistry*, 1887–89.
Wilmington, Del. Prepared by Miss E. D. Fraser's School, Wilmington, Del., and by Mr. W. A. Reynolds, of Wilmington.

ANNE TAYLOR, ... *Group, English and French*, 1885–89.
Cincinnati, Ohio. Prepared by Belmont College, College Hill, Ohio.

MARY LEWIS TAYLOR, ... *Group, Mathematics and Physics*, 1888–89.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

MARGARET CHESTON THOMAS, ... *Group, French and German*, 1885–89.
Baltimore, Md. Prepared by Miss Pindell's School, Baltimore, Md.

MARTHA GIBBONS THOMAS, ... *Group, Biology and Chemistry*, 1885–89.
Whitford, Pa. Prepared by private study.

MARY GRACE THOMAS, ... *Group, History and Political Science*, 1885–87.
Baltimore, Md. Prepared by Mr. Christie, Graduate Student, Johns Hopkins University.

LUELLA H. THORNE, ... *Group, Greek and Latin*, 1885–87, 88–89.
Skaneateles, N. Y. Skaneateles Union School and Academy, N. Y.

EMILY RACHEL VAIL, ... *Group, Greek and Latin*, 1886–87, 88–89.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

ANNIE DE BENNEVILLE WAGNER, ... *Group,* ———, 1888–89.
Germantown, Pa. Prepared by Mrs. Head's School, Germantown, Pa.

EVANGELINE HOLCOMBE WALKER, . . . *Group, Greek and Latin*, 1887–88.
Indianapolis, Ind. Girls' Classical School, Indianapolis, Ind.

MATHILDE WEIL, ... *Group, English and German*, 1887–89.
Philadelphia, Pa. Prepared by Mr. and Mrs. L. M. Johnson's School, Philadelphia, Pa.

EDITH WETHERILL, ... *Group, History and Political Science*, 1888–89.
Philadelphia, Pa. Prepared by Miss Case's and Miss Hallowell's School, Phila., Pa.

SOPHIA WEYGANDT, ... *Group, Greek and Latin*, 1885–89.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

MARGARET COOPER WHITALL, . . . *Group, Biology and Chemistry*, 1885–88.
Germantown, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

AGNES MARY WHITING, ... *Group*, 1888–89.
Springfield, Mass. Prepared by Miss Catharine L. Howard's School, Springfield, Mass.

KATHERINE TABER WILLETS, ... *Group, Greek and Latin*, 1886–89.
New York City. Prepared by Miss Anna C. Brackett's School and by Mrs. Julia J. Irvine, of New York City.

ELIZABETH WARE WINSOR, ... *Group*, ———, 1888–89.
Winchester, Mass. Prepared by High School, Winchester, Mass.

ELLEN AUGUSTA WINSLOW, . . *Group, History and Political Science*, 1887–89.
Saccarappa, Maine. Prepared by private study.

MARIAN A. WRIGHT, ... *Group, German and Latin*, 1887–89.
Germantown, Pa. Special Student, Smith College, 1883–84. Prepared by Miss Florence Baldwin, of Bryn Mawr, Pa.

Bryn Mawr College.

Bryn Mawr College, situated at Bryn Mawr, Pennsylvania, ten miles from Philadelphia, was endowed by Dr. Joseph W. Taylor, of Burlington, New Jersey, who proposed to found an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education that are so freely offered to young men." The site of the college was purchased and the buildings were begun during the lifetime of the founder, who died in 1880. In the same year the college was incorporated by the authority of the State of Pennsylvania, and invested with power to confer degrees. A circular of information was issued by the Trustees in 1883. A President and a Dean of the Faculty were elected in the spring of 1884. During the remainder of the year 1884 plans were matured and appointments made in the Faculty; in the autumn a second circular of information was issued, and an office at which to receive applications was opened in Philadelphia. The courtesy of the presiding officers and instructors of existing universities and colleges facilitated an acquaintance with the prevalent collegiate systems; and the domestic organisation of the women's colleges, Vassar, Smith, and Wellesley, received careful consideration. To the Johns Hopkins University acknowledgment is especially due, since from it has been borrowed the system of major and minor electives in fixed combination. In the spring of 1885 the first program was issued, and the college opened for instruction in the following autumn with forty-four students.

College Calendar. The present academic year will close with the Conferring of Degrees by the Trustees at 11 o'clock on June 6th, 1889. The lectures and class-work of the fifth academic year will begin October 1st, 1889, at 9 o'clock, and will end June 5th, 1890.

Examinations for matriculation will be held during the week preceding the opening of each academic year, and also during the last week of each academic year.

In the year 1889 the examinations will be held in the following order:

June, 1889.		*September*, 1889.	
1.		24.	
Arithmetic,	9—10½	Arithmetic,	9—10½
English,	10½—12½	English,	10½—12½
Geometry,	3—6	Geometry,	2—5
3.		25.	
Algebra,	9—12	Algebra,	9—12
Greek,	3—6	Greek,	2—5
Elements of Some Science,	3—5	Elements of some Science,	3—5
4.		26.	
Latin,	9—12	Latin,	9—12
Physical Geography,	2—3	Physical Geography,	2—3
French,	3—6	French,	3—6
5.		27.	
German,	9—12	German,	9—12
History,	2—4	History,	2—4
Solid Geometry and Trigonometry,	3—6	Solid Geometry and Trigonometry,	3—6

In the year 1890 the examinations will be held as follows:

May, 1890.		*September*, 1890.	
31.		23.	
Arithmetic,	9—10½	Arithmetic,	9—10½
English,	10½—12½	English,	10½—12½
Geometry,	3—6	Geometry,	2—5
June 2.		24.	
Algebra,	9—12	Algebra,	9—12
Greek,	3—6	Greek,	2—5
Elements of Some Science,	3—5	Elements of Some Science,	3—5
3.		25.	
Latin,	9—12	Latin,	9—12
Physical Geography,	2—3	Physical Geography,	2—3
French,	6—3	French,	3—6
4.		26.	
German,	9—12	German,	9—12
History,	2—4	History,	2—4
Solid Geometry and Trigonometry,	3—6	Solid Geometry and Trigonometry,	3—6

There will be a winter recess from December 20th, at 3 o'clock, to January 7th, at 9 o'clock; and a spring recess from April 1st, at 3 o'clock, to April 9th, at 9 o'clock.

The first semester will end February 8th; half yearly examinations will be held during the last week of the semester, and instead of a recess at Washington's birthday, there will be a recess of two days before the beginning of the next semester, February 12th.

Admission. Blank forms of application for admission should be obtained from the President.

Three classes of persons will be admitted to the lectures and class-work of the college:—graduate students, undergraduate students, and hearers.

Graduate Students. Graduate students must have presented a diploma from some college of acknowledged standing. They may pursue the advanced or graduate courses offered by the college, although the instructors in the several departments may require of them certain introductory or auxiliary studies; they are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations, from the instructors. Their needs will be considered in the arrangement of new courses of lectures.

Fellows. The most distinguished place among graduate students will be held by the Fellows. Five Fellowships are awarded annually —one in Greek, one in English, one in Mathematics, one in History and one in Biology. They are awarded as an honor and are intended to be an indorsement of previous attainments; they entitle the holder to free tuition, a furnished room in the college buildings, and the sum of three hundred and fifty dollars yearly.* They are open to graduates of Bryn Mawr College, or of any other college of good standing. No one may compete that has not a college degree or a certificate of prolonged study under well-known instructors; and, generally speaking, the Fellowship will be given to the candidate that has studied longest or whose work affords the best promise of future success. All applications should be made as early as possible, and must be made by the 15th of April preceding the year for which the Fellowship is desired. Blank forms will be forwarded to the applicant. A definite answer will be given within four weeks from the last date fixed for application. The

* Board will be charged at the regular college rates of $150 for the scholastic year.

holder of a Fellowship is expected to show, by the presentation of a thesis, or in some other manner, that her studies have not been without result. All Fellows may study for the degree of Doctor of Philosophy, the Fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts. Those that continue their studies at the College after the expiration of the Fellowship, may, by vote of the Trustees, receive the rank of Fellows by Courtesy.

Undergraduate Students.

Undergraduate students must have fulfilled the requirements for matriculation. The studies leading to the degree of Bachelor of Arts are stated on page 22. Those students, that do not wish to study for a degree, are required to enroll themselves as special students; they will, nevertheless, in the event of a change of plan be credited with such of their studies as may have coincided with the studies leading to a degree. All special students must have passed the examination for matriculation. Attention is called to the fact that the Group system enables all candidates for a degree to specialise in one or more subjects.

Special Students.

Hearers.

Hearers will be excused from passing the matriculation examination: but they will be strictly distinguished from matriculates, and will not be entitled to reside in the college. They must be women of at least twenty-five years of age, and must furnish proof that they have at some time pursued the studies included in the matriculation examination. They must satisfy the several instructors that they can profit by the courses that they desire to follow, and their admission to recitations, examinations, and laboratory exercises, will depend on the express consent of the instructor in charge. Hearers differ moreover from special students in that they are not recognised by the College, and can receive only such certificates of collegiate study as may be given them by the several instructors. They cannot receive degrees.

Examination for Matriculation.

The examination for Matriculation will also be open to those that wish to take it as a test of proficiency in elementary studies, but have no intention of entering the college.

Examinations are held in June and September of every year at Bryn Mawr College; and in June of every year, examinations are held also in Baltimore. On and after 1890 examinations may also be held in June, by request, in Germantown, Boston, Cincinnati and California, and will be con-

ducted by the Honorary Corresponding Secretaries, who will also answer all enquiries in regard to the examinations or the College.

Candidates may divide the examination between two successive years; if, however, more than one calendar year and the summer recess elapse between the two parts of the examination, the first part of the examination must be repeated.

Every candidate for matriculation that does not present a certificate of honorable dismissal from some college or university of acknowledged standing, must be examined in the following subjects, omitting, should she desire to do so, German or French, or Greek (any one of them), but not Latin, and in no case presenting for examination less than three languages, exclusive of English:*

Mathematics.—(1) *Arithmetic.* Since many complicated parts of arithmetic are simplified and explained by the study of the higher mathematics, candidates are advised to offer only the following portions of school-arithmetic: Fundamental Rules; Fractions; Decimals; Discount; Percentage; Simple and Compound Interest; Proportion; Compound Numbers and the Metric System, all tables necessary to the student being given; Square root. (2) *Algebra*, through Quadratic Equations; Ratio; Proportion; Variation; Arithmetical and Geometrical Progression. (3) *Plane Geometry.*

All candidates that do not in addition to the above present *Solid Geometry* and *Trigonometry* must pursue these branches in the college and pass an examination in them before receiving a degree. It is especially recommended that those intending to elect mathematical courses should pass the entire matriculation examination in mathematics. These candidates are advised to confine themselves to Algebra; Plane Geometry of the straight line and the circle; Solid Geometry and Trigonometry. More benefit will be derived from a thorough acquaintance with the pure geometrical methods, than from a little knowledge of Analytical Geometry.

* But candidates that have passed the Harvard University examinations for women held in Cambridge, New York, and Cincinnati will be admitted, whenever the examination has covered the same or equal ground in the subjects required for matriculation in the college. The following subjects are suggested as equivalents: All the "elementary studies" except one language, which must not be Latin; and the "advanced studies" in the three remaining languages, together with the advanced examination in Latin composition, and if Greek is taken, in Greek composition. The advanced examinations in Mathematics (18 and 19) will be regarded as equivalent to the examination in Solid Geometry and Trigonometry.

The certificate of honorable dismissal from another college of acknowledged standing will be accepted under similar limitations. In no other cases will certificates be accepted.

Note. Students whose matriculation examination has included either Solid Geometry, or Trigonometry, or both, will be credited with the time which others must subsequently spend upon these studies.

Latin.—(1) *Grammar and Composition.* There will be questions testing the candidate's practical knowledge of grammar, including prosody, and translation of English into Latin. (2) *Cæsar*, Gallic War, Books I.–IV. (or, if desired, *Ovid*, Metamorphoses, two thousand lines). *Cicero*, seven orations, including the four against Catiline. (3) *Virgil*, Æneid, Books I.–VI. (or the Eclogues and five books of the Æneid). Translation at sight of easy passages with due allowance for unusual words.

Note 1. Equivalents will be accepted to some extent, but all candidates must have read (*a*) Cicero, at least four orations, (*b*) Virgil, at least three books of the Æneid.

Note 2. The so-called Roman method of pronunciation, as explained in Allen and Greenough's Latin Grammar, is recommended.

Note 3. As many schools are introducing the "natural method" as a substitute for thorough grammatical training, attention is called to the fact that special stress will be laid on an accurate and ready knowledge of grammatical forms. A knowledge of paradigms and parts of irregular verbs will be insisted upon.

Note 4. The examination in Latin may be divided in the following manner only: (*a*) Grammar, Composition, Cæsar, and Cicero; (*b*) Virgil and sight reading.

Greek.—(1) *Grammar and Composition.* Simple Greek Composition (White's First Lessons in Greek and Jones's Exercises in Greek Prose or Equivalents). (2) *Xenophon*, Anabasis, Books I.–IV. (3) *Iliad*, Books I.–III., with questions on grammar suggested by the text. Translation at sight of easy passages from Xenophon and the Iliad, with due allowance for unusual words.

Note 1. Equivalents will be accepted to some extent, but all candidates must have read (*a*) Homer, at least two books of the Iliad, (*b*) Xenophon, at least two books of the Anabasis or Memorabilia.

Note 2. The examination in Greek may be divided in the following manner only: (*a*) Grammar, Composition, and Xenophon; (*b*) Iliad and sight reading.

French.—The examination in French, will have three divisions, one to test the candidate's knowledge of pronunciation and ordinary grammatical forms, the other two her power to read at sight ordinary French prose and verse.

Note 1. For the examination in reading no texts are assigned, the examination being intended to test the candidate's ability to read any ordinary French whatsoever. Candidates preparing for these examinations are advised to acquire as large a vocabulary as possible.

Note 2. The examination in French cannot be divided.

German.—The examination in German will be precisely similar to that in French, and will test the candidate's pronunciation, knowledge of ordinary grammatical forms, and ability to read ordinary German at sight.

Note 1. The examination in German cannot be divided.

Note 2. The candidate may omit one of the three languages, Greek, French, or German, selecting Greek and French, or Greek and German, or French and German.

History.—The outlines of the History of England and the United States; *or* the outlines of the History of Greece and Rome.

Note 1. Students that expect to enter the classical courses are advised to offer the outlines of Greek and Roman History. All others are advised to offer the outlines of English and United States History.

Note 2. Johnston's History of the United States, Thompson's History of England, Dr. Smith's Shorter History of Greece, and Leighton's History of Rome are recommended.

English.—Each candidate for matriculation will be required to correct specimens of bad English, and to write a short composition upon a subject assigned by the examiner. It is expected that the composition should be correct in spelling, grammar, punctuation, expression and general arrangement.

Abbott's "How to Write Clearly" is recommended; and no candidate can be successful in passing the examination without familiarity with the essentials of punctuation and arrangement. Much stress will be laid on these points.

In 1889 candidates should be familiar with *Shakespeare*, Julius Cæsar, and As You Like It; *Carlyle*, Heroes and Hero Worship; *Ruskin*, Sesame and Lilies; *Chaucer*, The Clerk's Tale.

In 1890 candidates should be familiar with the following works, from one or more of which the subject will be taken: *Shakespeare*, Coriolanus and Merchant of Venice; *Chaucer*, The Knight's Tale; *Ruskin*, Sesame and Lilies; *Thackeray's* English Humorists.

Note 1. A critical study of the works is not required.

Note 2. The books recommended for the same years, 1889, and 1890, by the Commission of Colleges of New England, will be accepted as equivalents.

Natural Science.—All candidates must pass an examination in the elements of *Physical Geography.*

Note. Guyot's Physical Geography is recommended.

Candidates that omit Greek must also pass an examination in the elements of *Physics*, *Chemistry*, *Botany* or *Physiology.*

Note. Balfour Stewart's Primer of Physics, Roscoe's Primer of Chemistry, Gray's "How Plants Grow," and Foster's Primer of Physiology are strongly recommended.

In 1890 candidates that omit Greek *may* substitute for the *two* examinations in Science (in the elements of Physical Geography, and in the elements of Physics, Chemistry, Botany or Physiology), an examination in *one* scientific subject: either Physics, Chemistry, Botany, Physiology *or* Physical Geography; and after the year 1890, *one* scientific subject only will be required

of all candidates for matriculation. A more thorough knowledge of the subject will then be expected.

Note. Gage's Physics, Remsen's Introduction to the Study of Chemistry (Briefer Course), Martin's Human Body (Briefer Course), Bessey's Essentials of Botany, are recommended.

The following tabular statement of the requirements for matriculation is appended for the convenience of the candidate:

Tabular Statement of Requirements for Matriculation.

All candidates for matriculation *must* be examined in the following three groups:

I.	II.	III.
Mathematics { Arithmetic, 1. Algebra, 1. Plane Geometry, 1.	*Latin* { (Grammar and Composition, Cæsar and Cicero, 2. Virgil and sight reading, 1.	History, 1. English, 1. Science, 1.

All candidates for matriculation *must* be examined in one of the following groups:

IV.	IV.	IV.
Greek { Gram. and Comp., Xenophon, 2. Iliad and sight reading, 1. *and* *French* { Grammar, Prose, Poetry, 3.	*Greek* { Gram. and Comp., Xenophon, 2. Iliad and sight reading, 1. *and* *German* { Grammar, Prose, Poetry, 3.	*French* { Grammar, Prose, Poetry, 3. *and* *German* { Grammar, Prose, Poetry, 3.
or	*or*	

The figures attached to the required subjects show the sections into which the examination is divided; the figure 1, shows that the subject is regarded as one section, the figure 2, as two sections, and so forth. A candidate, for example, that passes successfully in three sections of the required French, has thus passed in three subjects of the fifteen sections necessary for matriculation. Where a bracket precedes the figure, the subjects enclosed by the bracket cannot be separated in the examination. Should the candidates pass in fewer than four sections in the first division of the examination, the entire examination must be repeated.

The candidate *may* be examined in the following subjects, and if not examined, must pursue them in college, but to pass in Solid Geometry or Plane Trigonometry will not aid a candidate in receiving a certificate for the first half of the examination, should she fail to pass in four sections of the subjects required for matriculation.

Advanced Mathematics { Solid Geometry, Plane Trigonometry.	*A fourth language,* { *Greek* (as above) *or* *French* (as above) *or* *German* (as above).

Remarks on Examination for Matriculation.

All subjects potentially included in the examination for admission are regarded by the college as preparatory and non-collegiate. The college course of instruction in mathematics, for example, does not include but presupposes trigonometry; the courses in French and German presuppose a reading knowledge of these languages.

It is therefore to the interest of every student to offer, at

entrance, advanced mathematics, and if possible all four languages; remembering that even to fail in such of these examinations as are not strictly obligatory, will not affect the candidate's collegiate standing, and that to pass them successfully would leave her nearly free for elective study under the Group system and for true collegiate work. Great pains have been taken in the organisation of the collegiate courses; and it is not desirable that the time of students within the college should be needlessly withdrawn from these and spent upon preparatory work.

Studies Leading to the Degree of Bachelor of Arts. No student will be graduated who does not at the time of graduation possess a reading knowledge of French and German and some acquaintance with Latin and Greek. In the last semester before graduation, an oral examination will be held to test the candidate's power of reading French and German at sight. The College provides beginners' classes, five times weekly throughout one year, for those students who in the examination for matriculation may have omitted Greek, French or German; but attendance on these classes is not obligatory, the student being free to make good her deficiencies by private reading.

The following course of study must be pursued by every candidate for the degree of Bachelor of Arts.

Required Studies. *English*, see page 34.

Science, or *Science and History*, *i.e.*, any one of the major courses, or two of the following minor courses in Science: Physics, see page 46, Chemistry, see page 48, Biology, see page 49; or else any one of the minor courses, together with one of the following courses in History: Ancient History, see page 41, Modern History, see page 42.

Philosophy, see page 40.

Group. *Two Major Courses*, of two years each, constituting one of the following "Groups:" Any language with any language, see pp. 31–40; Mathematics with Physics, see pp. 44–46; or Mathematics with Greek or Latin, see pp. 44, 31–33; any science with any science, see pp. 46–52; History with Political Science, see pp. 41–44.

Free Electives. *Free Electives*, five hours weekly for a year and a half, to be chosen by the student. It should be observed that a single study may be taken as a Free Elective, without electing the group that includes it. Students wishing to combine Physics with either Chemistry or Biology must take at least a half year of Mathematics as a Free Elective.

It is expected that the student will consult the Dean of the Faculty in regard to the details and best arrangement of the various studies.

The students are not divided into the traditional college classes, nor is there any time set for graduation; in order to pursue a wider course of reading in connection with single subjects, or to attend a greater variety of lectures, the ablest students may choose to defer graduation, and, on the other hand, the usual period of collegiate study may be abridged; personal considerations only will determine the time spent in completing the studies required for a degree. Nevertheless, these requirements constitute strictly a Four Years' Course; that is to say, if the usual time given to lectures and class-work be computed at fifteen hours weekly, a student that passed the ordinary matriculation examination, and availed herself of the preliminary courses of the college on the subjects which that examination did not include, would in all cases require precisely four years.

For a more detailed explanation of the Group system, see page 27.

The Bryn Mawr European Fellowship.

The Bryn Mawr European Fellowship will be awarded annually to a member of the graduating class of Bryn Mawr College, on the ground of excellence in scholarship. The holder will receive the sum of five hundred dollars, applicable to the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the college.

Studies Leading to a Second Degree.

Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may, at their discretion, enroll themselves as candidates for the Degrees of Doctor of Philosophy and Master of Arts. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

The Degree of Doctor of Philosophy.

All candidates for the degree of Doctor of Philosophy and Master of Arts, must pursue for three years, after having received their first degree, a course of liberal (non-professional) study at

some college or university approved by the Faculty, and spend at least two of these years at Bryn Mawr College. They must be examined in two, and may at their discretion be examined in three subjects (the examination being of equal difficulty in either case); and must present a satisfactory dissertation on some topic included in their first or principal subject. They may be required to pursue certain auxiliary studies in connection with the subjects that they have elected; and the degree of Doctor of Philosophy, like that of Bachelor of Arts, will be given to no one who cannot read French and German, or who is wholly unacquainted with Latin and Greek. The dissertation must be printed. The degree of Doctor of Philosophy will in no case be conferred by the college as an honorary degree.

The Degree of Master of Arts. Candidates for a separate degree of Master of Arts, which will be conferred only on graduates of Bryn Mawr College, must reside at the college for at least one year after graduation, and pursue and pass an examination on a course of liberal study approved by the Faculty.

Residence. Residence in the college is not obligatory. During the years 1885–89 students living in Philadelphia or in the neighborhood of Bryn Mawr have attended the daily lectures and class-work of the college; others, finding it inconvenient to return home every day, have resided in the college for five days of the week.

The college buildings intended for residence contain single rooms and sets of rooms. The houses will accommodate about fifty students, and each house will be under the care of a lady who will reside in the building. There will be no common refectory, nor any inter-dependence between the houses. Compare the accompanying descriptions of Merion Hall and of Radnor Hall, which the other houses will resemble in the essential parts of their internal arrangement, such as furniture, heating, and light; compare also the general account of the buildings on page 53.

Expenses. The charge for tuition is one hundred dollars a year, irrespective of the number of courses attended, or of the actual time of attendance. It is the same for undergraduate students, graduate students, and hearers. An additional charge of fifteen dollars a year is made for materials, in every laboratory course.

A special exception will be made in favor of non-resident medical students and physicians, who will be charged for a

single course in chemistry or biology fifty dollars, and for two courses one hundred dollars, the laboratory charges being the same for them as for other students. A course is held to be five hours weekly of lectures and class-work throughout the year.

The charge for board and residence will be two hundred and seventy-five dollars a year for each student occupying a single room, and three hundred dollars for each student occupying, together with another student, a set of three rooms. Students that remain at the college during the winter and spring vacations will be charged seven dollars, or eight and a half dollars weekly, according to the rooms occupied. The charge for a student occupying a bedroom and private study will be four hundred dollars, and in vacations ten dollars a week.

Note 1. The charge for the students now in residence will be the same in 1889-90 as it has been for 1888-89.

Note 2. The charge for board and residence includes all expense of service, heating and light, except open fires and washing. There are open fire-places in nearly all the studies, but the rooms will be sufficiently heated by steam. A fixed annual charge is made for washing (see the description of Merion Hall and Radnor Hall) to those students that prefer to have their washing done in the college.

The charge for tuition is accordingly $100 a year, payable in advance.

The charge for board and residence is $275, $300 (or in special cases $400) a year; one-half payable half-yearly in advance.

The charge for board, residence and tuition is, therefore, $375 and $400 (or in special cases $500) a year.

Note. A STUDENTS' EDUCATIONAL FUND has been established for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed will be distributed by the college in the form of partial aid, and in most cases as a loan. It will be applied to the assistance of those students only who have attended courses in the college for at least one year.

Scholarships.

Three partial scholarships of $200 each will be open to members of the Society of Friends that are unable to pay the full charge for tuition and residence. When there are more than three applicants the candidates will be selected by competitive examination, and in no case can the scholarship be held by any one that has not passed the matriculation examination with credit. These scholarships will be for one year only, but may be renewed until graduation, when the progress of the student is satisfactory to the Faculty.

INSTRUCTION.

Libraries. The College Library will be as far as possible a library for special study, and is open for the use of the students from eight A.M. to ten P.M. every day. The library takes ninety-five scientific, literary, and philological periodicals and reviews in the English, German, French, Italian and Swedish languages, and the sum of three thousand dollars is expended yearly for books under the direction of the heads of the several collegiate departments. There are at present on its shelves 6250 bound volumes and 300 pamphlets. They are catalogued according to the Dewey system.

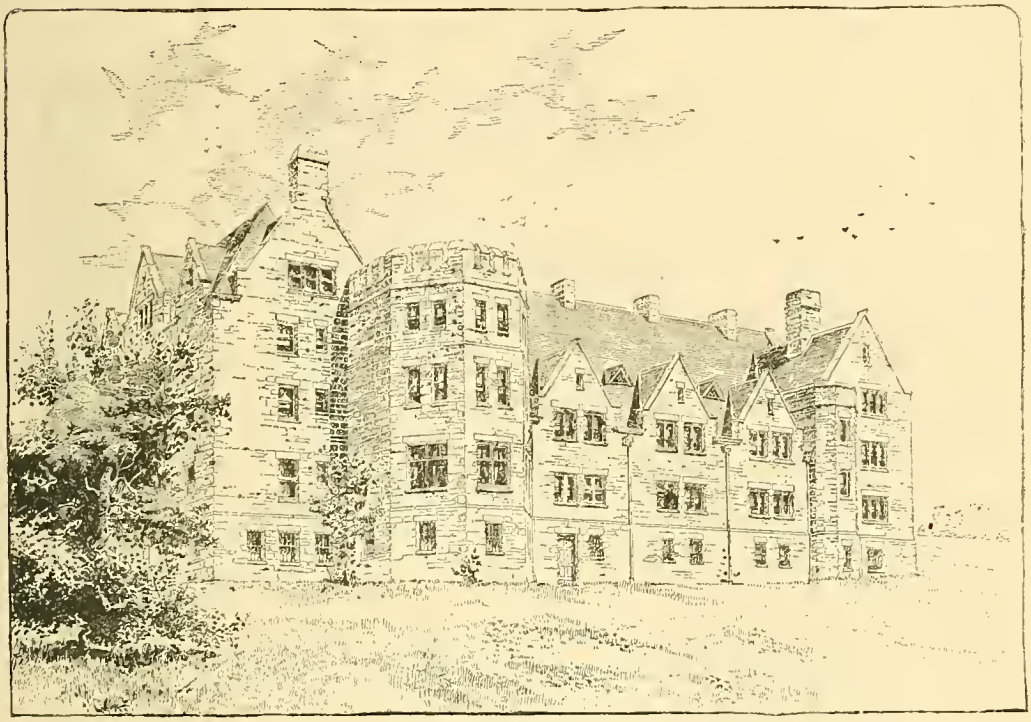
In Philadelphia there are the following important libraries:

The *Philadelphia Library*, which contains about 145,000 volumes. The library will at all times be open to the students for consultation; and students can obtain books on the shares held by the officers of the College. Private subscription, $12 a year for eight volumes, or $10 for nine months.

The *Mercantile Library*, which contains 150,000 volumes. Students can obtain books on the shares held by the College Library. Private subscription, $6.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains 30,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

Laboratories. The chemical laboratory consists of a lecture-room, a working laboratory, preparation and balance rooms and a chemical library. The supply of apparatus and chemicals has been carefully selected for the purposes of instruction and research, and is increasing from year to year. The chemical library contains besides necessary treatises and reference books several complete sets of chemical journals. A similar suite of five rooms is appropriated to the biological department; it includes two laboratories, one of which is exclusively botanical. The biological laboratories are equipped with the best (Zeiss) microscopes, microtomes, etc., and are supplied with a small but well-selected set of apparatus for the study of experimental physiology. A separate building containing a physical laboratory and lecture-room was furnished with apparatus and opened in the autumn of 1887. The chemical, biological and physical laboratories are open for students throughout the day.



FROM THE NORTH.

RADNOR HALL.

Radnor Hall is built of stone, and will accommodate about fifty students. It contains (a) three sets of rooms, comprising each two bed-rooms and a study; (b) forty-two single rooms; and (c) three sets of two rooms, each set to be occupied by one student. There is provided for each student a bookcase, a study-table, an arm-chair, and a student's lamp. The rooms are carpeted and completely furnished. The building is lighted by gas.

Board is charged at the rate of $150 a year.

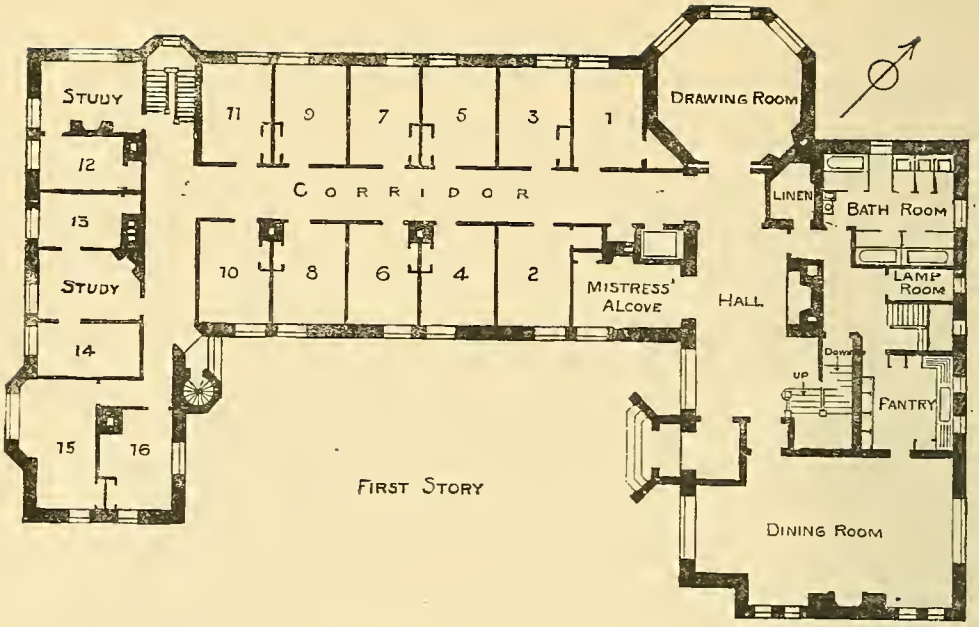
The tariff for rooms for each student, exclusive of board, is, for rooms (a), $150 a year; for rooms (b), $125 a year; for rooms (c), $250 a year. Applications for special rooms should be made as early as possible.

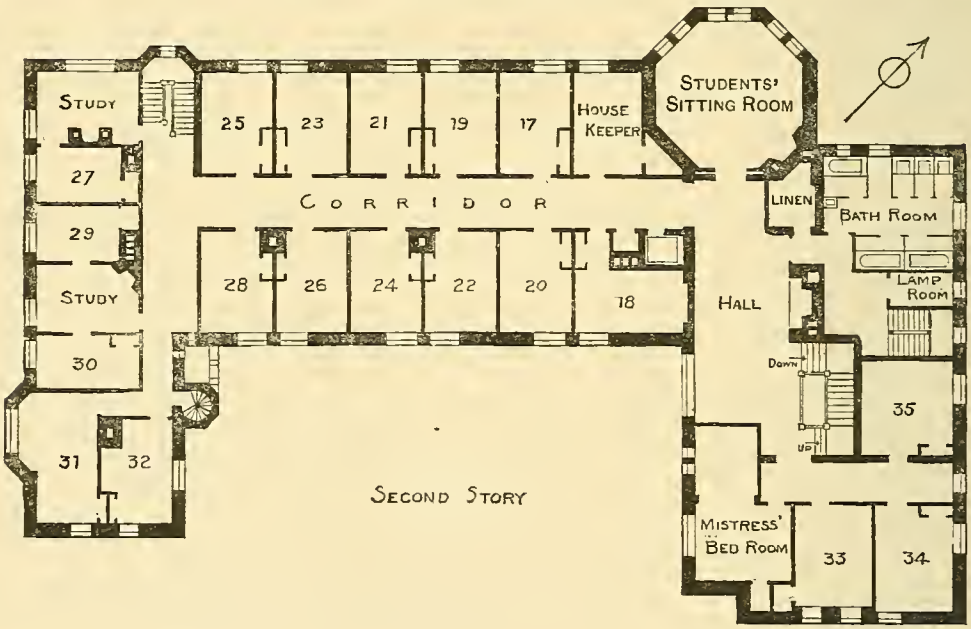
The above-mentioned charges include all expenses of furnishing, service, heating, and light, except open fires and washing.

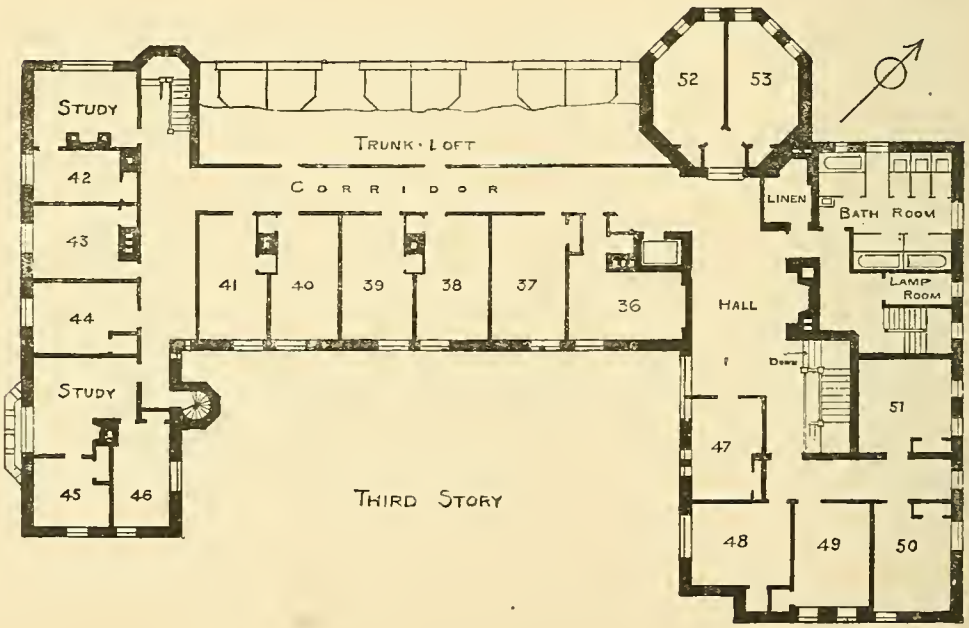
For washing, including towels, an annual charge of $18 a year is made to those students that prefer to have their washing done in the college, entitling them to a dozen pieces a week. All washing in excess of one dozen pieces a week will be charged at the rate of 50 cents a dozen for plain garments.

The charges for rooms and board do not include the fee for collegiate instruction, which is $100 a year. See Program, p. 24.

The entire charge for tuition and for board and residence in Radnor Hall (rooms b) is $375 a year; (rooms a) $400; (rooms c) $500.


STUDY
11
9
7
5
3
1
DRAWING ROOM
12
CORRIDOR
LINEN
BATH ROOM
13
10
8
6
4
2
MISTRESS' ALCOVE
HALL
LAMP ROOM
STUDY
14
DOWN
UP
PANTRY
15
16
FIRST STORY
DINING ROOM


STUDY
25
23
21
19
17
HOUSE KEEPER
STUDENTS' SITTING ROOM
27
CORRIDOR
LINEN
BATH ROOM
29
28
26
24
22
20
18
HALL
LAMP ROOM
STUDY
DOWN
30
35
UP
31
32
SECOND STORY
MISTRESS' BED ROOM
33
34


STUDY
TRUNK-LOFT
52
53
42
CORRIDOR
LINEN
BATH ROOM
43
41
40
39
38
37
36
HALL
LAMP ROOM
44
DOWN
STUDY
51
47
45
46
THIRD STORY
48
49
50

The Group System.

It is much to be desired that all undergraduate students should enroll themselves as candidates for the degree of Bachelor of Arts, and, therefore, that they should understand the precise scope and nature of the studies leading to that degree, and the significance of the Group system. A proper understanding of the Group system is, moreover, essential in order to comprehend the distribution and arrangement of the courses of instruction.

In all departments as yet organised there is a course of five hours a week for two years, called a Major Course. Whenever one year of this course is of such a nature that it can be taken separately, it is marked as a Minor Course. It is required of every candidate for a degree to take two such major courses as shall be homogeneous, or shall complete each other, and major courses which fulfil this condition are designated as Groups. It is meant that the student, under this system, should lay the foundations of a specialist's knowledge; and the Required Studies, namely, English, philosophy and science, or history and science, are intended in part to supplement the Group, and in part to ensure a more liberal training than could be achieved did every student combine elective studies at pleasure. The two years' required course in English includes a general introduction into the study of language. English literature will be treated with steady reference to the comparative history of literature; and the entire course will be so planned as to give unity and domestic application to the pursuits of students of philology, and to acquaint students of science or of history, in so far as this is possible in a special course, with the results, scope, and methods of the study of language and literature. The required two years in science, or in science and history, permit the student of chemistry and biology to pursue both branches of the biological course, or to take a major course in physics; and they ensure to the student of history and of language, for one year at least, the same kind of instruction and discipline as is received by the scientific student. The one year's course in philosophy is a general introduction into the study of the laws, conditions, and history of thought.

Tabular Statement.

A tabular statement of the courses leading to a degree is prefixed for the sake of clearness:

*Minor Courses (One Year Each).**

1. and 2. English. *Two Courses.*	3. Philosophy.	4. Science, Physics, or Chemistry, or Biology.	5. Science or History.	†[6.] French, or German, or Greek.	†[7.] Solid Geometry and Trigonometry.

Two Major Courses (Two Years Each).

Constituting any one of the following groups:

I.	II.	III.	IV.	V.
Any language with any language.	Any science with any science.	Mathematics with Greek or Latin.	Mathematics with Physics.	History with Political Science.

Free Electives.

Five hours weekly for a year and a half.

The "Minor Courses" in the above table are known as the Required Studies; the "Two Major Courses" as the Group. All studies whatsoever fall under one of these heads, Required Studies, Group, or Free Electives.

The following combinations of studies are suggested as specimens of a few of the many combinations that may be made by students that are candidates for a degree, yet wish to specialise.

Classics. *As Required Studies*, English, Philosophy, Science, (Physics, Chemistry, or Biology), Ancient History [French or German]. *As a Group*, Greek and Latin. *As Free Electives*, advanced Greek and Latin, with or without Sanskrit.

Modern Languages (other than English). *As Required Studies*, English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History, [Greek, French, or German]. *As a Group*, French and German, or Latin and French. *As Free Electives*, Spanish or Italian.

English. *As Required Studies*, English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History, [Greek, French, or German]. *As a Group*, French and English, or Greek and English. *As Free Electives*, German or Latin.

Mathematics (with Latin). *As Required Studies*, English, Philosophy, Physics, Ancient History, [Greek, French, or German]. *As a Group*, Mathematics and Latin. *As Free Electives*, Advanced Mathematics.

* Except 7. (*One-half year.*)

† See page 22, under "Studies leading to the degree of Bachelor of Arts."

Mathematics (with Physics). *As Required Studies*, English, Philosophy, Chemistry, Biology, [Greek, French, or German]. *As a Group*, Mathematics and Physics. *As Free Electives*, Advanced Mathematics, or Physics.

History. *As Required Studies*, English, Philosophy, any Science, any Language, (Greek, Latin, English, German, French, Italian, or Spanish), [Greek, French, or German]. *As a Group*, History and Political Science. *As Free Electives*, History of German, or of French, Literature.

Science. *As Required Studies*, English, Philosophy, Physics, Botany, [Greek, French, or German]. *As a Group*, Chemistry and Biology. *As Free Electives*, Physics (second year); or advanced work in Biology or Chemistry.

The following combinations might be adopted by those that wish to pursue a major course in History or Science, yet not to elect an historical or a scientific group.

I. *As Required Studies*, English, Philosophy, any Science, Ancient History, [Greek, French, or German]. *As a Group*, any Language with any Language, or Chemistry with Biology or Physics. *As Free Electives*, Modern History.

II. *As Required Studies*, English, Philosophy, Physics, Chemistry, [Greek, French, or German]. *As a Group*, any Language with any Language. *As Free Electives*, second year in Chemistry, or one year in Biology (animal or vegetable).

Since the time of graduation is determined only by the completion of the prescribed course, there is an entire freedom from over-pressure. All matriculated students may receive the degree of Bachelor of Arts when the prescribed course of study has been satisfactorily completed. On the other hand, as is shown by the recognition of special students, it is not required of any one to apply for a degree; and no degree will be conferred unless the course have been completed with credit.

Lectures.

It is the object of the lectures to give a clear and succinct statement of facts and principles; to enumerate and criticise with frankness hand-books, authorities, and editions; to touch upon minor or far-lying points with such distinctness as may enable the student to investigate them intelligently at some future day; to bring the student's knowledge down to date, and to inform her, step by step, what things have been definitely ascertained and what things remain to be investigated. It is intended that the notes taken on these lectures, in addition to

their immediate practical use, shall be of lasting value for reference, and be the starting-point, or at least the schedule, of studies to be undertaken subsequently. Every isolated student knows how difficult it is to be initiated into the modern scholastic movement otherwise than orally; and, therefore, in addition to the lectures, the several instructors will appoint certain hours in which the students may consult them freely.

The lectures will be accompanied by class-work, and by frequent examinations; they will be strictly special, not popular.

The Professors or Associates appointed are the recognised heads of their departments, and only such instructors have been chosen as are qualified to direct both graduate and undergraduate work.

Courses of Study. There will be offered each year a minor course in Philosophy, and major, or two-year courses, of five hours instruction weekly in the following subjects: Greek, Latin, English, German, French, Italian, Spanish, Mathematics, Physics, Chemistry, both branches of Biology, History, and Political Science.

Courses in Language and Literature. Graduate courses are offered in Sanskrit and Indo-European Philology, Greek, Old French, Italian, Spanish, and other Romance Languages, Gothic, Norse, Old High German, Middle High German, Old Saxon, Anglo-Saxon, English Literature, Political Science, Mathematics, Chemistry, and Biology.

The courses in language and literature are meant, first of all, to be complete in themselves, and extensive enough to meet the needs of special students; and secondly, to facilitate the study of comparative philology or of comparative literature. Whenever it has been practicable, as in all the modern languages, one-half of the major course has been devoted to strictly linguistic studies, and the other half to the history of literature. In the major courses in Greek and Latin, the customary text-reading will be supplemented by lectures on the history of literature; the advanced course in Greek will ultimately be constructed on the model of a major course, one year being devoted to comparative philology and Sanskrit, and one to literary studies and the reading of difficult texts. Courses of parallel reading will be required of all students of language and literature, precisely as laboratory work is required of the students of chemistry or biology; these courses are intended to acquaint the students with the works of numerous authors, and it is especially hoped that students of Greek and Latin will, by this

means, accustom themselves to read these languages constantly and without assistance.

The courses in ancient and modern languages will be of equal difficulty, and will be placed on a footing of equality. The traditional separation between ancient and modern languages has been disregarded, because, although strictly classical students may always be inclined to combine Greek and Latin, there is, nevertheless, no modern literature of which the study may not fitly be preceded, or supplemented, by the study of Latin or Greek.

Courses in Science.

The attention of medical students, or those looking forward to the study of medicine, may be called to the facilities offered by the scientific laboratories. The value of a practical knowledge of biology and chemistry as preliminary or accessory to the professional study of medicine is generally recognised. Through the courtesy of the Woman's Medical College of Pennsylvania, and the Woman's Medical College of the New York Infirmary, allowance will be made in their professional courses for work carried on at Bryn Mawr in the scientific laboratories. Students of Bryn Mawr College that have completed major courses in chemistry and biology will be released from the first year's, or primary, examination in these colleges, and from laboratory practice in chemistry and biology.

Greek courses offered in 1889–90:

GREEK.

Beginners' Course.

A course of five hours weekly throughout the year will be provided for those students whose examination for matriculation did not include Greek. This course is required of candidates for the degree of Bachelor of Arts. Students that desire to continue the study of Greek are expected to read more Greek than is required of the other students, in order that in the ensuing year they may pass the entrance examination and enter upon the first year of the major course.

First Year.

(Minor Course.)

Major Course.

1*st Semester.*

Plato, *Apology*, Dr. Hopkins. *Twice weekly.*

Odyssey, *Selections*, Dr. Shorey. *Twice weekly.*

Exercises in Greek Prose Composition, Dr. Hopkins. *Once weekly.*

Private Reading, Lysias, *Against Eratosthenes.*

2*nd Semester.*

Iliad, *Selections*, Dr. Shorey. *Twice weekly.*
Euripides, *Alcestis*, Dr. Hopkins. *Twice weekly.*
Exercises in Greek Prose Composition, Dr. Hopkins. *Once weekly.*
Private Reading, Sophocles, *Ajax.*

Second Year.

1*st Semester.*

Lectures on the History of Greek Poetry, Dr. Hopkins. *Twice weekly.*
Herodotus, *Selections;* Æschylus, *Persæ*, Dr. Shorey. *Twice weekly.*
Lyric Poets, *Selections*, Dr. Hopkins. *Once weekly.*
Private Reading, Æschylus, *Prometheus.*

2*nd Semester.*

Lectures on the History of Greek Prose, Dr. Shorey. *Twice weekly.*
Thucydides, *Selections*, Dr. Hopkins. *Twice weekly.*
Lectures on Greek Grammar, Dr. Hopkins. *Once weekly.*
Private Reading, Isocrates, *Panegyricus.*

The usual second year's work of the Major Course may be divided so as to cover a period of two years; but the lectures on literature must be taken, and the reading course of two hours must, if elected, be taken for both semesters.

The first year's work may not be divided.

Examinations on the courses of private readings will be held at the end of each semester.

Group. Greek with any language, or with Mathematics.

Post Major Courses. Four courses, extending through the year, are offered to those that have completed the Major Course.

Pindar, *Selections*, Dr. Shorey. *Once weekly.*

This course will probably not be given next year.

Rapid reading of Plato, *Republic*, Dr. Shorey. *Twice weekly.*
Æschylus, *Oresteia*, Dr. Hopkins. *Once weekly.*
Greek reading (not yet announced), Dr. Hopkins. *Once weekly.*

Graduate Courses. Advanced courses in Greek are provided for graduate students. These courses will be varied from year to year, according to the needs of the students and at the discretion of the instructors, so that graduate students may attend them for more than two semesters.

The Post Major courses are open to graduate students.

A large part of the work expected of graduates will consist of reading, under direction of the department, and reports of works thus read will from time to time be required of the student.

In 1889–90 the following graduate courses will be offered:

1*st Semester.*

(*a*) Lectures on Comparative Philology, Dr. Hopkins. *Once weekly.*

(*b*) Sanskrit Grammar, with selections from Lanman's Reader, *or* Drama, *Selections*, } Dr. Hopkins. *Once weekly.*

(*c*) Æschines and Demosthenes, *On the Crown*, Dr. Hopkins. *Once weekly.*

(*d*) Greek Sculpture, Dr. Smyth. *Once weekly.*

The course presents an outline of the history of Greek sculpture from the Homeric period to that of the Roman Conquest. In 1889-90, after a series of introductory lectures, the work will concentrate itself on the period of Praxiteles, Lysippus and their successors.

In future, the course will extend throughout two years, and the student may enter the course in either year.

Post-major students may attend the lectures upon consultation with the instructor.

(*e*) Study of Greek writers on style Dionysius of Halicarnassus (*de compositione verborum*); Longinus (*Treatise on the Sublime*), Dr. Smyth. *Once weekly.*

2*nd Semester.*

(*a*) Philological Seminary, Dr. Hopkins. *Once weekly.*

(*b*) Selections from the Rig Veda, Dr. Hopkins. *Once weekly.*

(*c*) Greek Melic Poets, Dr. Hopkins. *Once weekly.*

(*d*) Greek Sculpture, Dr. Smyth. *Once weekly.*

(*e*) Homer (Seminary), Dr. Smyth. *Once weekly.*

LATIN.

In 1889–90 the Major Course will be as follows: ***Major Course.***

First Year.

(*Minor Course.*)

1*st Semester.*

Horace, *Selections*, Dr. Shorey. *Twice weekly.*

May be taken as a Free Elective.

Sallust, *Catilina*, Dr. Smyth. *Twice weekly.*

Latin Prose Composition, Dr. Smyth. *Once weekly.*

Private Reading, Virgil, *Æneid VII., VIII.*

2*nd Semester.*

Horace (continued); Virgil, *Selections*, with lectures on the poetry of the Augustan age, Dr. Shorey. *Twice weekly.*

May be taken as a Free Elective.

Livy, *book XXI.*, Dr. Smyth. *Twice weekly.*

Latin Prose Composition, Dr. Smyth. *Once weekly.*

Private Reading, Virgil, *Æneid IX., X.*

Second Year.

1*st Semester.*

Lectures on Latin Literature, Dr. Shorey. *Once weekly.*

(Unless a sufficient number of students elect this course, an additional hour of reading in Juvenal, Catullus and Martial may be substituted for it next year.)

Juvenal, *Selections*, Dr. Shorey. *Once weekly.*
Tacitus, *Germania*, *Agricola*, Dr. Smyth. *Twice weekly.*
Lectures on Latin Grammar, Dr. Hopkins. *Once weekly.*
Private Reading, Pliny, *Selected Letters.*

2*nd Semester.*

Lectures on Latin Literature, Dr. Shorey. *Once weekly.*
Catullus, and Martial, Dr. Shorey. *Once weekly.*
Tibullus, Propertius, Dr. Smyth. *Twice weekly.*
Specimens of Early Latin, Dr. Hopkins. *Once weekly.*
Private Reading, Cicero, *Selected Letters.*

Group. Latin with any language, or with Mathematics. Especially recommended, Latin and Greek; Latin and French; Latin and Spanish or Italian.

Post Major Courses.

Study of Cicero, Lucretius, *Selections*, Dr. Shorey. *Twice weekly.*

Lectures, reports and rapid reading, two hours weekly throughout the year. Additional work may be taken in connection with this course after consultation with the instructor.

ENGLISH.

Required Course.

The required course consists of lectures on literature and language, in which the history of English literature will be regarded as far as possible from the point of view of European literature generally (see page 27), essay-work, and courses of private reading which are meant to familiarise the student with classical English authors. There will be frequent examinations on the private reading. The student is advised to attend the course during her first year in college.

First Year.

1*st Semester.*

Lectures on the English language, Dr. Thomas.

Four times weekly during the first two months.

Lectures on the history of Anglo-Saxon literature; with an introduction into the study of early Germanic literature and mythology. *Three times weekly during the remainder of the semester.*

Reading of Skeat and Morris, *Specimens of Early English, Part II.*, Dr. McClumpha. *Once weekly during the remainder of semester.*

Essay-work, Dr. Gwinn. *Once weekly.*

2nd Semester.

Lectures on the history of English literature to the time of Chaucer, inclusive, with an introduction into the study of French mediæval literature, Dr. Thomas. *Three times weekly.*

Reading of Chaucer, Dr. McClumpha. *Once weekly.*

Essay-work, Dr. Gwinn. *Once weekly.*

Second Year.

1st Semester.

Lectures on the history of English literature from Chaucer to the Restoration, exclusive; with a short account of Italian literature, Dr. Thomas. *Four times weekly.*

Essay-work, Dr. Gwinn. *Once weekly.*

2nd Semester.

Lectures on the history of English literature from the Restoration to the present time; with a short account of the literature of France in the 17th and 18th centuries. *Four times weekly.*

Essay-work, Dr. Gwinn. *Once weekly.*

Parallel courses of private reading are arranged in connection with the lectures, and the writing of essays will form part of each year's work.

The courses of the first and second year will be given alternately, and may be attended in reverse order.

Major Course.

The Major Course in English, which may be elected in combination with the Major Course in any other language, presupposes as much information as is contained in the Required Course. In that it has been preceded by two years' study of English, it differs slightly from the other Major Courses of the College, and is intended for graduate students or for those undergraduate students who are exceptionally anxious to specialise in English. Either year may be taken separately by students that have completed the Required Course.

First Year.

(*Language—Minor Course.*)

1st Semester.

Anglo-Saxon Grammar and Reading of Anglo-Saxon Texts, Dr. McClumpha. *Five times weekly.*

The course in Anglo-Saxon begins with Siever's Anglo-Saxon Grammar and the prose contained in Sweet's Anglo-Saxon Reader. Several hundred lines of Beowulf are read, and portions of Beowulf or of Beowulf literature (episodes, armor, customs, etc.) are assigned for special study. The course closes with Zupitze's Reader, which forms the transition to the Early English of the next semester.

2nd Semester.

Early English Grammar and the reading of Early English Texts, Dr. McClumpha. *Five times weekly.*

The courses in Early English will include the reading of Skeat and Morris, *Specimens of Early English, Parts 1st and 2nd,* and selections from Piers Plowman and Wyclif. Great attention will be paid to the pronunciation of Early English and to the change from Early English into Modern English.

Second Year.

(*Literature—Minor Course.*)

Special study of particular authors or periods, the choice of subjects being regulated in part by the needs of the students, Dr. Thomas and Dr. Gwinn. *Five times weekly.*

The year is essentially a year of seminary work and essay writing.

In 1888–89, Matthew Arnold (for prose style); Shelley in the first semester, and Leigh Hunt, Keats, Byron, Coleridge and Wordsworth in the second semester, were the central subjects. The private reading and essay-writing are on any subjects connected with authors studied, and need not be the same for all students. Every effort will be made to enable the students to acquire a good English style.

Group. English with any language.

Either year of the English Major may be taken as a Free Elective by students that have completed the two years of required English.

Graduate Courses. There will be offered each year two distinct graduate courses in English, which will make it possible for the student to specialise either in philology or literature; these courses will be varied from year to year according to the needs of the students.

The graduate instruction in English literature will include the direction of private reading and the assignment of topics for investigation. In 1888–89, Swinburne and Browning were selected for special study, the students and instructor meeting two hours weekly for discussion.

In Anglo-Saxon and Early English, the following graduate courses were given in 1888–89.

Rapid reading of Beowulf. *Twice weekly.*

Cynewulf, *Andreas and Elene.* *Once weekly.*

Lectures on Anglo-Saxon Grammar, accompanied by the reading of Sweet's Dialectic Reader. *Twice weekly.*

Chaucer. *Twice weekly.*

GERMAN.

Beginners' Class.

A class for beginners in German, five hours weekly throughout the year, will be provided, in order that those students whose matriculation examination did not include German may with less difficulty obtain the reading knowledge of it that they must possess before receiving a degree. By great diligence such students may, it is hoped, acquire sufficient knowledge to be admitted, should they desire it, into the Major Course in German.

Conversation Class.

A class for German conversation will meet, in the afternoon or evening, three times weekly throughout the year. It may be attended by any student that has passed the matriculation examination in German.

Major Course.

The Major Course presupposes as much knowledge as is implied by the matriculation examination in this subject. Either the first or second year of the Major Course may be taken as a Minor Course.

First Year.

(*Literature—Minor Course.*)

History of German Literature from the earliest times to the time of Klopstock, exclusive, Dr. Collitz. *Twice weekly.*

These lectures, which will be delivered in German, will begin with the account of German civilisation found in classical authors, and will include Ulfilas, the time of Charlemagne, the fragments of heathen poetry, the Hêliand, Otfried, the Nibelungenlied, and the Heldenbuch, the time of Wolfram, Gottfried, Hartmann, the Minnesingers and Meistersingers, Sebastian Brandt, Hans Sachs, etc.

Max Müller, *The German Classics* (1*st Part*), Dr. Collitz. *Once weekly.*

Goethe, *Faust* (1*st Part*), Dr. Collitz. *Once weekly.*

German Conversation Class, Miss Chamberlin. *Twice weekly.*

The private reading on which an examination will be held at the end of the year is as follows: Lessing, *Emilia Galotti;* Goethe, *Götz v. Berlichingen, Iphigenie;* Schiller, *Don Carlos, Braut v. Messina.*

Second Year.

(*Language—Minor Course.*)

The History of German Literature from Klopstock inclusive, to the present time, Dr. Collitz. *Twice weekly.*

These lectures will be delivered in German and will treat the great classical authors as well as the most modern poets and novelists.

They are open as a 'Free Elective' to all students that have passed the matriculation examination in German.

Reading of Middle High German Texts, Dr. Collitz. *Once weekly.*

The course begins with Wright's Middle High German Primer. Hartmann v. Aue, *Der Arme Heinrich*, and parts of the Nibelungenlied and of Walther v. d. Vogelweide are translated into modern German.

Goethe, *Faust* (*2nd Part*), Dr. Collitz. *Once weekly.*

German conversation class, Miss Chamberlin. *Twice weekly.*

The private reading on which an examination will be held at the end of the year is as follows: Lessing, *Miss Sara Sampson;* Goethe, *Clavigo, Tasso;* Schiller, *Wallenstein;* Scheffel, *Ekkehard;* Chamisso, *Peter Schlemihl.*

Group. German with any language.

Graduate Courses. In 1889–90 the following graduate courses are offered:

Gothic, Dr. Collitz. *Once weekly.*

Reading of Middle High German Texts, Dr. Collitz. *Twice weekly.*

Norse, Dr. Collitz. *Once weekly.*

FRENCH.

Beginners' Class. An introductory course, resembling the introductory course in German, will be provided for the convenience of those students who, in their matriculation examination, omitted French.

Conversation Class. A class for French conversation will meet in the afternoon or evening, three times a week. It may be attended by any student that has passed the matriculation examination in French.

Major Course. The Major Course in French presupposes as much knowledge as is required for the matriculation examination in that subject. Either the first or second year can be taken as a Minor Course, the two years together forming a Major.

The lectures are delivered in French.

First Year.

(*Minor Course.*)

Lectures on the History of French Literature of the 14th, 15th, 16th and 17th Centuries, Dr. Stürzinger. *Three times weekly.*

French Composition, Dr. Stürzinger. *Once weekly.*

French Conversation, and Talks about Literature, Mlle. Bonname. *Once weekly.*

The lectures being delivered in French, the notes taken by the students will be submitted to the instructor, and one hour weekly will be devoted to grammatical criticism or needful instruction in style.

The private reading on which an examination will be held is as follows: four plays of Corneille; nine of Molière; six of Racine; two of Voltaire and the Siècle of Louis XIV.; *Le Joueur* and *Le Legat Universel* of Regnard; *L'Epreuve* and *Le Legs* of Marivaux; *Le Mariage de Figaro;* Diderot's *La Religieuse* and *Le Neveu de Rameau;* and parts of Malherbe, Regnier, Pascal, La Bruyère, Fénelon, *Gil Blas*, and Rousseau.

Second Year.

(*Minor Course.*)

1*st Semester.*

Lectures on the History of French Literature of the 18th and 19th Centuries, Dr. Stürzinger. *Three times weekly.*

French Composition, Dr. Stürzinger. *Once weekly.*

French Conversation and Talks about Literature, Mlle. Bonname. *Once weekly.*

The private reading on which an examination is held is as follows: Chateaubriand, *Atala, Génie du Christianisme* (2nd part, books 1–3); Mme de Staël, *Corinne* (I., 1-4; II., 1, 2; VI., 11), *De l'Allemagne;* Béranger, *Selected Chansons;* Lamartine, Selections from *Meditations, Harmonies* and *Jocelyn;* Alfred de Vigny, *Poëmes Antiques et Modernes* (*Moïse, La Neige, Le Cor*), *Cinq Mars;* Victor Hugo, Selections from *Orientales; Contemplations* and *Légende des Siècles; Préface de Cromwell, Hernani* and parts of *Les Misérables;* Alfred de Musset, *Selected Poems and Dramas;* George Sand, *La Marquise, La Mare au Diable, Le Marquis de Villemer;* Merimée, *Contes et Nouvelles, Colomba*; Balzac, *Le Père Goriot, Eugénie Grandet.*

It will be required of the student to prepare French essays or translations, and one hour weekly will be devoted to grammatical criticisms of these essays, or to needful instruction in grammar and style.

The courses of the first and of the second year will be given alternately.

Group. French with any language.

Special courses in Old French, and in Romance Philology and Romance Dialects, will be given for graduate students. The work will vary from year to year. ***Graduate Courses.***

ITALIAN.

First Year.

(*Language—Minor Course.*)

Major Course. Historical Grammar of the Italian Language, terminating with reading of Italian Texts. *Five times weekly.*

This course comprises a philological introduction into the study of Italian, translation of English into Italian, and class exercises in pronunciation and reading. Private reading will be assigned towards the close of the year.

Second Year.

(*Literature.*)

History of Italian Literature, and special study of Dante. *Four times weekly.*

Composition and Reading. *Once weekly.*

The Private Reading in this course will include selections from Petrarch, Boccaccio, Manzoni, and Leopardi.

Examinations on the courses of private reading will be held from time to time.

The courses of the first and of the second year will not be given simultaneously.

Group. Italian with any language.

SPANISH.

First Year.

(*Language—Minor Course.*)

Major Course. Historical Grammar of the Spanish Language, terminating with reading of Spanish Texts. *Five times weekly.*

Second Year.

(*Literature.*)

History of Spanish Literature, with reading of selections from the most important texts. *Four times weekly.*

Composition and Reading. *Once weekly.*

The Private Reading in this course will include selections from Cervantes, Calderon, Moratin, and Fernon Cabellero.

The courses of the first and of the second year will not be given simultaneously.

Group. Spanish with any language.

PHILOSOPHY.

A course in Philosophy of five hours weekly throughout one year is required of all candidates for the degree of Bachelor of Arts.

1*st Semester.*

Elements of Logic, Dr. Cook. *Once weekly.*

Elements of Psychology, Dr. Cook. *Once weekly.*

History of Philosophy, Dr. Cook. *Twice weekly.*

Christian Ethics, President Rhoads. *Once weekly.*

In the first part of the course, the lectures will treat of the theory of ethics, and, in connection with this discussion, there will be given a brief history of ethical systems. The subsequent and larger part of the course will be occupied with an examination of the moral teachings of Christianity, and their applications.

HISTORY.

The aim of the courses in History is to give the students the general outline of the development of European civilisation. Especial attention is therefore paid to the growth and influence of institutions, though the importance of familiarity with the narrative and chronology of European history is not overlooked. In addition to text-book drill and lectures, private reading will be assigned, designed to supplement and enforce the views presented in the class-room. The reading will not be confined to English works; but may embrace selections from the best sources available, whether in Latin, German or French. A familiarity with those languages sufficient to enable the student to read passages of average difficulty will be, therefore, of material advantage.

First Year.

(*Ancient History—Minor Course.*)

1*st Semester.*

History of Greece, Dr. Walker. *Five times weekly.* ***Major Course.***

The course is introduced by a brief series of lectures, sketching the civilisation of Egypt, Assyria, Babylon, Phœnicia, and Palestine, but the chief teaching is by means of the text-book and recitation.

2*nd Semester.*

History of Rome, Dr. Walker. *Five times weekly.*

This course is similar in method and aim to that of the first semester. While the use of the text-book is continued, more use is made of lectures. Such topics are emphasised as the credibility of the traditional history of early Rome; the struggles between Patricians and Plebeians; the conquest of Italy; the contest with Carthage; the reforms of the Gracchi; the causes leading to the downfall of the republic; the struggles of Marius, Sulla, Pompey and Julius Cæsar; the empire of Augustus; the general history of the emperors down to the change in the character of the empire effected by Diocletian. The aim throughout is to familiarise the student with the growth of the politi-

cal and administrative institutions of the Romans, and to make evident the elements which Rome contributed to modern civilisation.

Second Year.

(*Modern History—Minor Course.*)

1*st Semester.*

The general History of Europe, from the fall of the Roman Empire to the discovery of America, Dr. Walker. *Five times weekly.*

The instruction is chiefly by lectures, but much private reading is assigned. The course is designed to show the development of the civilisation of modern Europe; and treats in special detail the causes of the downfall of the Roman Empire; the barbarian invasions; the kingdom of the Franks; the rise of Mohammedanism; the growth of the Papacy; the empire of Charlemagne; the conquests of the Normans; the development of the feudal system; the contests between the Empire and the Papacy; the Crusades; monasticism; scholasticism; the rise of the universities; the failure of the Holy Roman Empire; the growth of the Italian free cities; the development of royal power and of representative institutions in England, France and Spain; the growth of the national spirit.

2*nd Semester.*

The Renaissance and Reformation; General European History, from the discovery of America to the close of the Napoleonic wars; and lectures on special topics in American History, Dr. Walker. *Five times weekly.*

Special topics: The loss of influence by the mediæval Papacy consequent upon the great schism; the reforming councils; the radical reformers before Luther; the revival of the classical spirit in Italy; the spread of the renaissance movement throughout Europe; the reformers and reformation in Germany, Switzerland, England, Scotland, France and Holland; the counter-reformation in Spain, Italy and France; the religious wars; the development of parliamentary liberty in England; the English commonwealth and revolution; the seven years' war and the rise of Prussia; the American revolution; the French revolution; and the Napoleonic wars; and various selected topics in American history.

Either year of the major course in history may be taken separately as a minor course.

Two years of history may be taken without the course in political science, by electing one year of history as a minor course and a second year as a free elective.

Group. History and Political Science. Students that elect this group may take, as required studies, instead of one year of science and one year of history, one year of science and one year of any language (Greek, Latin, English, French, German, Italian, or Spanish).

POLITICAL SCIENCE.

The Department of Political Science offers instruction upon the following related subjects: the development of political institutions, from their beginnings in tribal society through the growth of Eastern, Grecian, Roman and Teutonic States, to their complicated forms in modern nations; the history of political theories, from Aristotle to Hegel, Mill and Spencer; the growth and criticism of political principles, as seen in the constitutional history and law of Europe, England and the United States; the principles of administration—American and European methods, including election methods, the civil service, local and municipal government and taxation; the principles of political economy; economic history; special economic topics and questions—the tariff, the land question, the labor question and so forth—the methods and principles of charitable work among the defective and dependent classes.

The lectures are constantly accompanied by class work, and by seminary exercises. Private reading is assigned, with the aim of developing independent thinking and research.

The first and the second year's work in Political Science is given each year; and the minor course must be completed before the work of the major course can be attempted.

The lectures on Charity and Correction, however, in the second year, may be taken as a free elective.

First Year.

(*Minor Course.*)

1*st Semester.*

Development of Political Institutions, Mr. Giddings. *Twice weekly.* ***Major Course.***

Principles of Political Economy, Mr. Giddings. *Three times weekly.*

2*nd Semester.*

History of Political Theories and Comparative Study of Political Principles, Mr. Giddings. *Three times weekly.*

Economic History, Mr. Giddings. *Twice weekly.*

Second Year.

(*Major Course.*)

1*st Semester.*

Methods and Principles of Administration, Mr. Giddings. *Three times weekly.*

Advanced Political Economy, Mr. Giddings. *Twice weekly.*

2nd Semester.

Methods and Principles of Charity and Correction, Mr. Giddings. *Twice weekly.*

This course may be taken as a Free Elective.

Advanced Political Economy, Mr. Giddings. *Three times weekly.*

Group. History and Political Science. Students that elect this group may take, as required studies, instead of one year of science and one year of history, one year of science and one year of any language (Greek, Latin, English, French, German, Italian, or Spanish).

Graduate Course. Graduate students receive personal direction and assistance in their special studies, or in any of the foregoing subjects.

MATHEMATICS.

A Preparatory Course of five hours weekly throughout one semester is designed for students entering the college without a sufficient knowledge of those mathematical subjects that are optional in the entrance examination; the lectures will be adapted each year to the requirements of students taking the course; they will, generally speaking, include solid geometry and trigonometry.

The Major Course is a course in Pure Mathematics, and in the two years the students will be able to gain a fair knowledge of the principal pure mathematical subjects. It is not proposed in this course to give much study to the applications of Mathematics, but some opportunity for this will be afforded by the courses of lectures on Dynamics, and by an alternative course in the final semester. The subjects in this alternative course will be arranged by the instructor with a view to the needs of students intending to take the graduate course. The points of contact of Mathematics with other branches of mental and physical science will be indicated as far as possible throughout the course, special attention being paid to the nature of mathematical reasoning, and to the true relation and mutual dependence of Mathematics and Physics, in order that students may obtain just ideas of the scope and province of Mathematics. The course of lectures on the history of Mathematics in the second year is intended to give an outline of the development of the subject from its beginning to 1700 A. D.

First Year.

(*Minor Course.*)

1*st Semester.*

Algebra, advanced Trigonometry, and Theory of Equations, (*a*) Mr. Harkness. *Twice weekly.* ***Major Course.***

Analytical and Modern Geometry of Two Dimensions, (*b*) Dr. Scott. *Twice weekly.*

Geometrical Conics and Newton, (*c*) Dr. Scott. *Once weekly.*

2*nd Semester.*

Elementary Differential and Integral Calculus, (*d*) Mr. Harkness. *Twice weekly.*

Analytical and Modern Geometry of Two Dimensions, (*e*) Dr. Scott. *Twice weekly.*

Newton and Elementary Dynamics, (*f*) Mr. Harkness. *Once weekly.*

Second Year.

1*st Semester.*

Differential and Integral Calculus, (*g*) Mr. Harkness. *Three times weekly.*

Analytical and Modern Geometry of Two Dimensions, (*h*) Dr. Scott. *Twice weekly.*

2*nd Semester.*

Differential Equations and Elements of Finite Differences, (*i*) Mr. Harkness. *Twice weekly.*

Analytical Geometry of Three Dimensions, Dr. Scott; *or*, Applied Mathematics, (*j*) Mr. Harkness. *Twice weekly.*

History of Mathematics, (*k*) Dr. Scott. *Once weekly.*

Seminary (throughout the course). *Twice weekly.*

The work for either year may be divided so as to cover a period of two consecutive years. The division must be made as follows:

FIRST YEAR'S WORK, ... { 1*st Half* { 1*st Semester* (*a*). / 2*d Semester* (*b*). } / 2*d Half* { 1*st Semester* (*c*) *and* (*e*). / 2*d Semester* (*d*) *and* (*f*). }

SECOND YEAR'S WORK, ... { 1*st Half* { 1*st Semester* (*g*). / 2*d Semester* (*i*) [*and* (*k*)]. } / 2*d Half* { 1*st Semester* (*h*). / 2*d Semester* (*j*) [*and* (*k*)]. }

Group. Mathematics with Physics, or Mathematics with Greek or Latin.

The Free Elective course in Mathematics (one year and a half) consists of the first year's work (divided, if desired), with (*g*), and (*h*) or (*i*) of the second year's work. With the approval of the instructor (*k*) may be substituted for an equivalent part of (*g*).

Graduate Courses. The lectures in the Graduate Course will be varied from year to year; so that, while each year will be complete in itself, a graduate may, if she wish, attend for more than two consecutive semesters. This course will be open in part as a Free Elective to students that have completed the Major Course in Mathematics, with special permission from the instructor.

In the year 1888–89 the following courses of lectures were given:

Higher Plane Curves, Dr. Scott. *First semester, twice; second semester, three times weekly.*

Modern Geometry, Dr. Scott. *Twice weekly.*

Differential Analysis, Mr. Harkness. *First semester, three times weekly.*

Theory of Functions, Mr. Harkness. *Second semester, twice weekly.*

Courses of lectures in these subjects, in Modern Algebra, Theory of Numbers, History of Mathematics, etc., and seminary work will be arranged according to the requirements of graduate students taking the course.

PHYSICS.

The course in Physics extends through two years, but in the first year an elementary treatment of all the subjects is given, making a course complete in itself.

Lodge's Mechanics and Thompson's Lessons in Electricity and Magnetism are used in connection with the work of the first semester. In the second semester, instruction is wholly by lectures.

For the first year's course a knowledge of the elements of Trigonometry is required. No knowledge of Physics is presupposed.

In the second year use is made of Differential and Integral Calculus. The lecture courses (*b*), (*c*) and (*d*) of the mathematical Minor Course will cover the required ground. These courses will, if desired, be given in the second semester, thus making with the Required Mathematics of the first semester a total of five hours throughout the year. Students not wishing to elect Mathematics with Physics as a Group, can count this half-year's work as their half-year of "Free Elective."

First Year.

(*Minor Course.*)

1*st Semester.*

Mechanics and Electricity, Dr. Perkins. *Five times weekly.*
Laboratory work. *Three hours weekly.*

2*nd Semester.*

Sound, Heat and Light, Dr. Perkins. *Five times weekly.*
Laboratory work. *Three hours weekly.*

In the laboratory, the students are first instructed in the methods of accurate measurement of the simple quantities, length, time and weight, and in the laws governing the equilibrium and motion of bodies.

Later, they make determinations of electrical qualities, potential, resistance, capacity, etc.; and problems in heat, sound and light are studied and discussed.

The object of the work is to familiarise the students with the instruments and methods used in physical measurements, with special reference to the quantitative laws upon which the science is based. The laboratory is equipped with this object in view and the apparatus is all of the most modern design.

Second Year.

(*Major Course.*)

1*st Semester.*

Theory of Errors, Mechanics and Electricity. *Five times weekly.*
Laboratory work. *Four hours weekly.*

2*nd Semester.*

Elementary Thermodynamics, Geometrical and Physical Optics. *Five times weekly.*
Laboratory work. *Four hours weekly*

The lectures on Mechanics deal especially with the more important applications to physical problems. Those on Heat and Light consist of an extension of the treatment of the first year, and an attempt is made to bring the students in contact with the work of original investigators.

In the laboratory work of the second year, more attention is paid to accuracy of measurement than in the first year, and the special problems assigned are adapted as far as possible to the requirements and wishes of the individual students. Special study is made of the sources and amount of the errors involved in the different operations.

Whenever possible, students will be directed to points of investigation left untouched by previous experimenters, or to the study of new methods of experiment and research.

Group. Physics with Mathematics; Physics with Chemistry; or Physics with Biology.

CHEMISTRY.

Instruction in Chemistry for undergraduates will be given by means of lectures, examinations, and laboratory practice. This course extends over a period of two years, and consists of five lectures and a minimum of six hours of laboratory work weekly during both years. The chief object of the instruction is to give students a thorough and systematic knowledge of chemical phenomena, and a clear conception of the relations existing between observed facts and the general theories of the science. While chemical analysis plays an important part in the instruction given during a portion of the course, it is taught only as an application of the knowledge of chemical facts which the student has already acquired.

First Year.

(*Minor Course.*)

1*st Semester.*

Major Course. Introduction to General Chemistry (Lectures), Dr. Keiser. *Five times weekly.*

Laboratory work. *Six hours weekly.*

The lectures of the first semester are a general introduction to chemistry. The more important properties of the elements and their compounds are considered, and a thorough study is made of the facts upon which the general laws of chemical action are based.

The laboratory is open for the first year's students six hours weekly. The laboratory work begins with a series of exercises in manipulation and in the more frequently occurring chemical operations. The students are taught the use of accurate measuring and weighing apparatus, and are made familiar with the calculations employed in quantitative work. Analysis is taught only incidentily, and not as the chief object of the science. While studying the more important properties of the elements and their compounds, considerable attention is devoted to a study of the quantitative relations of the substances with which the students work.

2*nd Semester.*

General Chemistry (Lectures), Dr. Keiser. *Five times weekly.*

Laboratory work. *Six hours weekly.*

The lectures and exercises during the second semester are a continuation of the work of the first semester. The laboratory work consists of a systematic study of the properties and behavior of the more important elements and compounds, and of a repetition of the more instructive experiments that have been previously performed in the lecture room.

Second Year.

1st Semester.

Lectures on Analytical and Physical Chemistry, Dr. Keiser. *Five times weekly.*

Laboratory work. *Six hours weekly.*

The lectures of the first portion of the semester of the second year's course are upon the methods of Analytical Chemistry. Processes for the detection, separation, and estimation of elements are considered. These are followed by lectures upon Stoichiometry and Theoretical Chemistry.

Throughout the year the students work in the laboratory six hours weekly. Their work is upon the subjects considered in the lectures; great care is taken to avoid a mere mechanical use of analytical tables, the student being encouraged to devise analytical methods without aid, using only the knowledge that she actually possesses.

2nd Semester.

Lectures on Carbon Compounds, Dr. Keiser. *Five times weekly.*

Laboratory work. *Six hours weekly.*

The subject of the lectures during the second semester is the chemistry of the hydrocarbons and their derivatives. The laboratory work is continued as in the first semester, the greater portion of the course being devoted to Analytical Chemistry. Towards the end of the semester, some of the typical carbon compounds are prepared and studied in the laboratory.

Group. Chemistry with Biology; or Chemistry with Physics.

Graduate Courses.

Opportunities for advanced study and research are provided for graduate students that have already such a knowledge of chemistry as would be obtained by taking the two years of work laid down for undergraduates, and for others who, although not graduates, are competent to follow the advanced courses profitably. The advanced work will consist in exercises intended to give the student a comprehensive knowledge of chemical methods and operations, in difficult and typical preparations, and in researches on assigned topics. Advanced students will be required to become familiar with the literature bearing on their practical work. A knowledge of French and German will therefore be necessary. There will also be lectures from time to time upon selected topics, and upon the more recent researches in organic and inorganic chemistry.

BIOLOGY.

The course in Biology may extend through one, two or three years, and is equivalent throughout to five hours of lectures and other class exercises and six hours' laboratory practice a week. The work of the first year (minor course) forms a general introduction to the subject through a broad, comparative study of

living things (General Biology). In the second year (major course) the foundation of a special knowledge of animal morphology and physiology is laid. The third year's work (post-major), which is offered only to students of marked aptitude, is devoted to advanced courses in special topics, to the study of current biological literature and to the practical investigation of special problems. A knowledge of the elements of Chemistry and Physics is very desirable for students entering any course in Biology.

First Year.

(*Minor Course.*)

Major Course.

General Biology. *Five hours weekly throughout the year.*

Laboratory work. *Six hours weekly.*

It is the object of this course to give the student clear conceptions of the fundamental principles of vital structure and action, the outlines of general classification, and the relations of the biological sciences to one another and to other branches of science. The laboratory practice is designed to enable the student as far as possible to examine for herself the facts discussed in the lectures, to encourage the habit of exact observation, to train the eye and the hand, and to impart a knowledge of methods of practical work.

The work is not designed simply to teach the elements of Zoology and Botany, as commonly understood, but beyond this to consider plants and animals with constant reference to one another, both in their structure and in their mode of action. Stress is therefore laid on the essential facts of comparative morphology and physiology (General Biology) as illustrated by the thorough study of a few types, rather than on the minutiæ of classification. At the same time, the work is arranged with reference to subsequent special work in Zoology, Botany and Physiology.

The work necessarily involves an accurate study of vital phenomena in detail, which alone can form the groundwork of any real discipline in the science. The student is, however, led as far as possible to regard facts as illustrations of more general biological truths, and to estimate the importance of these truths beyond the immediate field of the specialist.

In the first semester the student examines a number of animals and plants, so arranged as to form a natural and progressive introduction to the general principles of Biology. After certain general preliminary studies on familiar and highly organised forms, the student makes a detailed examination of unicellular organisms, and from them proceeds gradually to the complex conditions of structure and function found in higher plants and animals. In the second semester attention is given mainly to the biology of flowering plants and of vertebrate animals. The course ends with a thorough study of the embryology of the chick.

As a part of the general work of the year, short courses are given in Elementary Human Physiology and in Elementary Botany and Plant Analysis; both courses vary somewhat in character and extent, according to the needs of the student.

Second Year.

ANIMAL MORPHOLOGY AND PHYSIOLOGY.

1st Semester.

General Zoology. *Three hours weekly.*

Comparative Anatomy of Vertebrata. *Two hours weekly.*

Laboratory work. *Six hours weekly.*

These courses extend the work of the first year so as to include a comprehensive survey of the phenomena of animal life. The course in General Zoology comprises a systematic presentation of the more important facts of general morphology, with especial reference to the relationships and classification of animals. The course in Comparative Anatomy is devoted to the morphology of vertebrates, and is designed to serve in part as a study of vetebrate homologies, in part as a preparation for the subsequent study of Animal Physiology and Histology. In the laboratory thorough dissections are made of typical forms, illustrating the leading groups of animals, and sufficient work is required in systematic zoology to teach the student how to name and classify animals, and to learn the relations between species, genera, and the higher groups. Students looking forward to the study of medicine are recommended to devote especial attention to the anatomy of higher vertebrates and to human and comparative osteology.

2nd Semester.

Advanced Physiology and Histology. *Three hours weekly.*

Laboratory work. *Six hours weekly.*

A knowledge of scientific physiology is here conveyed by a detailed account of the microscopic structure and the mode of working of the higher animal organism. The application of this knowledge to Hygiene, Medicine, and Psychology is indicated.

The chief organs and tissues of the vertebrate body are examined with the microscope, and much practice in the preparation of histological specimens is obtained. The laboratory is equipped with a stock of physiological apparatus, and the fundamental facts of physiology and the methods of physiological inquiry are learned by means of demonstrations and experiments by the students.

Advanced Biology. *Two hours weekly.*

In this course the student is introduced to some of the leading questions of theoretical general biology. The first part of the course is devoted to the history of biological discovery, with especial reference to the development of the more important generalisations and theories of the science. The latter part is mainly occupied with a critical analysis of the theory of evolution and with discussions of the broader philosophical problems of biology, such as heredity, variation, adaptation, animal metamorphosis and kindred topics. These lectures vary somewhat from year to year, and are intended to be suggestive rather than exhaustive in character.

Group. Biology with Chemistry; Biology with Physics.

Graduate Courses. To students who have completed a major course in Biology, or who have done an equivalent amount of work, advanced courses are offered in Comparative Anatomy, Physiology and Embryology. These courses consist in part of lectures and recitations, but mainly of practical instruction in the laboratory, supplemented by courses of reading. Special topics may be selected according to the wish or abilities of the student, and pursued with direct reference to original research. In such study students are required to familiarise themselves with the literature of the subject; a knowledge of French and German is therefore indispensable.

PHYSICAL CULTURE.

The health of the students is under the care of Dr. Ladd, Director of the Gymnasium, and of a practicing physician, who visits the college at regular intervals, and can then be consulted by all the students free of charge.

The gymnasium (see page 53) is open for the use of students from 9 A.M. to 10 P.M. daily. Before admission to the gymnasium each student must be examined by the Director with reference to physical development, strength of heart and lungs, and hereditary tendencies. The exercises prescribed will be strictly individual, varying according to the physical development of the student; their effect will be tested by half-yearly examinations, and great pains will be taken to prevent any over-exertion.

Opportunities for Public Worship. It was the desire of the Founder that the college should be pervaded by a simple and practical Christianity, and an endeavor will be made to promote this end.

In the vicinity of the college, there are churches of various denominations. Conveyances are supplied to enable students to attend the more distant places of worship, including the Friends' Meeting. There will be daily morning worship in the college.

COLLEGE BUILDINGS.

The college buildings are situated ten miles west of Philadelphia, on the Pennsylvania Railroad, a quarter of a mile from the Bryn Mawr Station; the neighboring country is agreeable and very healthful, and towards the west there is a fine prospect of hills. The college grounds cover forty acres, and include planted lawns and tennis courts; they are surrounded by private villas.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains the lecture-rooms and laboratories, and the offices of administration. It is the wish of the Trustees to transfer the scientific departments of the College to a new building. Taylor Hall will soon be entirely occupied by the library and by the remaining departments; and it is suggested to all persons who wish to bestow gifts on the College, to contribute to the $50,000 needed for the new building. Around Taylor Hall it is the intention of the Trustees to erect halls for the accommodation of students; descriptions of Merion Hall and of Radnor Hall are annexed to the present Program. The gymnasium is one of the most commodious yet provided for women. It contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather; a room for the Director, to which is attached another for the examination and record of the physical development of the students, and bathrooms for use after exercise. It is open to the students at all times. This gymnasium has been built in accordance with the system of Dr. Sargent; it is furnished with his complete apparatus, and is under the charge of a Physician who has completed his course of instruction.

Near the college is a Telegraph Office, Adams' Express Office, and United States Money Order Office. There are good roads in every direction. Riding horses and phaetons may be kept in a livery stable near the college, at a cost of twenty-five dollars a month.

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PROGRAM

BRYN MAWR COLLEGE.

1890.

PHILADELPHIA:
SHERMAN & CO., PRINTERS.
1890.

BRYN MAWR COLLEGE.

College Calendar.

1890.

JANUARY.

Su.	M.	Tu.	W.	Th	Fr.	Sa.
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1891.

JANUARY.

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The present academic year will close with the Conferring of Degrees by the Trustees at eleven o'clock, on June 5th, 1890.

There will be a winter recess from December 20th, at three o'clock, to

January 7th, at nine o'clock; and a spring recess from April 1st, at three o'clock, to April 9th, at nine o'clock.

The first semester will end February 8th; half yearly examinations will be held during the last week of the semester, from February 3d to February 8th, and instead of a holiday on Washington's birthday, there will be a recess of two days before the beginning of the next semester, February 12th.

The lectures and class-work of the sixth academic year will begin September 30th, 1890, at nine o'clock, and will close June 4th, 1891.

There will be a winter recess from December 19th, 1890, at three o'clock, to January 6th, 1891, at nine o'clock; and a spring recess from March 24th, at three o'clock, to April 1st, at nine o'clock.

The first semester will end February 7th, 1891; half yearly examinations will be held during the last week of the semester, February 2d, to February 7th, and instead of a holiday on Washington's birthday there will be a recess of two days before the beginning of the next semester, February 11th, 1891.

Examinations for matriculation will be held during the week preceding the opening of each academic year, and also during the last week of each academic year.

May, 1890.		September, 1890.	
30.		23.	
Arithmetic,	9—10½	*Arithmetic*,	9—10½
English,	11—1	*English*,	10½—12½
Geometry,	3—6	*Geometry*,	2—5
31.		24.	
Algebra,	9—12	*Algebra*,	9—12
French,	3—6	*French*,	2—5
June 2.		25.	
Latin, { *Composition*, / *Cæsar and Cicero*, }	9—12	*Latin*, { *Composition*, / *Cæsar and Cicero*, }	9—12
Science,	2—4	*Science*,	2—4
3.		26.	
Latin, { *Virgil*,	9—10½	*Latin*, { *Virgil*,	9—10½
History,	11—1	*History*,	10½—12½
German,	3—6	*German*,	2—5
4.		27.	
Greek,	9—12	*Greek*,	9—12
Solid Geometry and Trigonometry,	2—5	*Solid Geometry and Trigonometry*,	2—5

May, 1891.		September, 1891.	
29.		22.	
Arithmetic,	9—10½	*Arithmetic*,	9—10½
English,	11—1	*English*,	10½—12½
Geometry,	3—6	*Geometry*,	2—5
30.		23.	
Algebra,	9—12	*Algebra*,	9—12
French,	3—6	*French*,	2—5
31.		24.	
Latin, { *Composition*, / *Cæsar and Cicero*, }	9—12	*Latin*, { *Composition*, / *Cæsar and Cicero*, }	9—12
Science,	2—4	*Science*,	2—4
June 1.		25.	
Latin, { *Virgil*	9—10½	*Latin*, { *Virgil*,	9—10½
History,	11—1	*History*,	10½—12½
German,	3—6	*German*,	2—5
2.		26.	
Greek,	9—12	*Greek*,	9—12
Solid Geometry and Trigonometry,	2—5	*Solid Geometry and Trigonometry*,	2—5

Board of Trustees.

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Philip C. Garrett, Philadelphia.
Edward Bettle, Jr., Philadelphia.

Academic Appointments.

James E. Rhoads, LL.D., *President of the College.*

M. Carey Thomas, Ph.D., *Dean of the Faculty and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877–78; University of Leipsic, 1879–82; Ph.D., University of Zürich, 1882; Sorbonne and the Collége de France, 1883.

Edmund B. Wilson, Ph.D., *Professor of Biology.*

Ph.B., Yale College, 1878; Fellow in Biology, Johns Hopkins University, 1879–81; Ph.D., Johns Hopkins University, 1881; Assistant in Biology, Johns Hopkins University, 1881–82; studied at the Universities of Cambridge and Leipsic, and at the Biological Station, Naples, 1882–83; Lecturer on Biology, Williams College, Mass., 1883–84; Lecturer on Comparative Anatomy and Physiology in the Massachusetts Institute of Technology, 1884–85.

Charlotte Angas Scott, D.Sc., *Associate Professor of Mathematics.*

Lincoln, England. Graduate in Honors, Girton College, Cambridge, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, Cambridge, 1880–84; lectured in connection with Newnham College, 1880–83; D.Sc., University of London, 1885.

Edward Washburn Hopkins, Ph.D., *Associate Professor of Greek, Sanskrit, and Comparative Philology.*

A.B., Columbia College, 1878; Fellow in Literature, Columbia College, 1878–81; University of Leipsic, 1878–81; University of Berlin, 1880; Ph.D., University of Leipsic, 1881; Sorbonne and the Collége de France, 1881; Assistant in Latin and Instructor in Zend, Columbia College, 1881–84.

Paul Shorey, Ph.D., *Associate Professor of Greek and Latin.*

A.B., Harvard College, 1878; University of Leipsic, 1881–82; University of Bonn, 1882; American School of Classical Studies, Athens, 1882–83; Ph.D., University of Munich, 1884.

Edward H. Keiser, Ph.D., *Associate Professor of Chemistry.*

S.B., Swarthmore College, 1880; Assistant in Chemistry in Swarthmore College, 1880–81; S.M., Swarthmore College, 1881; Fellow in Chemistry, Johns Hopkins University, 1882–84; Ph.D., Johns Hopkins University, 1884; student at the Royal School of Mines, Freiberg, Saxony, 1884; Assistant in Chemistry, Johns Hopkins University, 1884–85.

J. Jacques Stürzinger, Ph.D., *Associate Professor of Romance Languages.*

Wylen, Switzerland. University of Marburg, 1875–76; University of Leipsic, 1876–77; Sorbonne and the Collége de France, 1877–78; Ph.D., University of Zürich, 1879; studied in London, Cambridge, and Oxford, 1879–81; Privatdocent in the University of Bonn, 1882–85.

Hermann Collitz, Ph.D., *Associate Professor of German Literature and Language.*

Bleckede, Hanover, Germany. University of Göttingen, 1875–78; University of Berlin, 1878–81; Ph.D., University of Göttingen, 1878; Privatdocent in the University of Halle, 1885–86.

Charles A. Perkins, Ph.D., *Associate in Physics.*

A.B., Williams College, 1879; Fellow in Physics, Johns Hopkins University, 1883–84, and Ph.D., 1884; Assistant in Physics, Johns Hopkins University, 1884–87.

Frederic S. Lee, Ph.D., *Associate in Physiology and Histology.*

A.B., St. Lawrence University, 1878, and A.M., 1881; Fellow in Biology, Johns Hopkins University, 1884–85, and Ph.D., 1885; studied at the University of Leipsic, 1885–86; Instructor in Physiology, St. Lawrence University, 1886–87.

James Harkness, M.A. (*Cambridge and London*), *Associate in Mathematics.*

Derby, England. Major Scholar, Trinity College, Cambridge, 1882; Graduate in Honors (8th Wrangler), in the Cambridge Mathematical Tripos, 1885; Mathematical Exhibitioner, London University Intermediate Arts Examination, 1885; Mathematical Scholar, London University B.A. Examination, 1887.

HERBERT WEIR SMYTH, Ph.D., *Associate in Greek and Latin.*

A.B., Swarthmore College, 1876; and Harvard University, 1878; University of Leipsic, 1879–81; University of Göttingen, 1881–83; Instructor in Classics and Sanskrit, Williams College, 1883–85; Ph.D., University of Göttingen, 1884; Fellow by Courtesy and Lecturer on Greek, Johns Hopkins University, 1885–87; Reader in Greek Literature, Johns Hopkins University, 1887–88.

MARY GWINN, PH.D., *Associate in English.*

Studied at the University of Leipsic, 1879–82; University of Zürich, 1882; Sorbonne and the Collége de France, 1883; Fellow in English, Bryn Mawr College, 1885–87, and Ph.D., Bryn Mawr College, 1888.

FRANKLIN H. GIDDINGS, A.M., *Associate in Political Science.*

A.B., Union College, 1877, and A.M., 1889.

ROSE CHAMBERLIN, *Instructor in French and German.*

Great Yarmouth, England. Graduate in Honors, Newnham College (Mediæval and Modern Languages Tripos, First Class) University of Cambridge, England, 1886.

CHARLES FLINT MCCLUMPHA, PH.D., *Associate in Anglo-Saxon.*

A.B., Princeton College, 1885; University of Leipsic, 1885–88, and Ph.D., 1888.

CHARLES MCLEAN ANDREWS, Ph.D., *Associate in History.*

A.B., Trinity College, 1884; Fellow in Johns Hopkins University, 1888–89; and Ph.D., 1889.

GONZALES LODGE, PH.D., *Associate in Latin.*

A.B., Johns Hopkins University, 1883; Graduate Scholar and Fellow, Johns Hopkins University, 1883–86, and Ph.D., 1886; Professor of Greek, Davidson College, 1886–88; American School of Classical Studies, Athens, 1888–89; University of Bonn, 1889.

J. RENDEL HARRIS, A.M., *Lecturer on the Bible and Biblical Study.*

Professor of Biblical Languages and Ecclesiastical History in Haverford College; late Associate Professor of New Testament Greek, in the Johns Hopkins University.

LEAH GOFF, A.B., *Demonstrator in the Biological Laboratory.*

A.B., Bryn Mawr College, 1889.

FLORENCE E. PEIRCE, *Librarian.*

JULIA COPE, *Secretary.*

A.B., Bryn Mawr College, 1889.

CAROLYN C. LADD, M.D., *Director of the Gymnasium.*

Graduate of Dr. Sargent's Training School, 1884–85; M.D., Woman's Medical College of Pennsylvania, 1889.

ANNA E. BROOMALL, M.D., *Consulting Physician of the College.*

Professor in the Woman's Medical College of Pennsylvania.

IDA RICHARDSON, M.D., *Physician of the College.*

AMELIA B. EDWARDS, PH.D., L.H.D., LL.D., *Non-resident Lecturer in Archæology.*

Honorary Corresponding Secretaries.

MARY MCMURTRIE, A.B. (Bryn Mawr College), 1104 *Spruce Street*, PHILADELPHIA.

SOPHIA WEYGANDT, A.B. (Bryn Mawr College), *Upsal Street*, GERMANTOWN.

MARGARET C. THOMAS, A.B. (Bryn Mawr College), 1228 *Madison Avenue*, BALTIMORE.

EMILY GREENE BALCH, A.B. (Bryn Mawr College), *Jamaica Plain*, BOSTON.

ANNE TAYLOR, A.B. (Bryn Mawr College), *College Hill*, CINCINNATI.

CATHERINE E. BEAN, A.B. (Bryn Mawr College), *College Avenue*, SAN JOSÉ.

Students.

Fellows and Graduate Students.

Emily Greene Balch, . . . *Holder of the Bryn Mawr European Fellowship.*
Jamaica Plain, Mass., A.B., Bryn Mawr College, 1889.

Hannah Robie Sewall *Fellow by Courtesy in History.*
St. Paul, Minn. A.B., University of Minnesota, 1884; A.M., University of Michigan, 1887; Fellow in History, Bryn Mawr College, 1888-89.

Ida Wood, ... *Fellow by Courtesy in English.*
Philadelphia, Pa. A.B., Vassar College, 1877, and A.M., 1889. Fellow in English, Bryn Mawr College, 1888-89.

Elizabeth Miller Blanchard, ... *Fellow in Mathematics.*
Bellefonte, Pa. A.B., Bryn Mawr College, 1889.

Mabel P. Clark, ... *Fellow in English.*
New York City. A.B., Bryn Mawr College, 1889.

Susan Braley Franklin, ... *Fellow in Greek.*
Newport, R. I. A.B., Bryn Mawr College, 1889.

Eleanor Louisa Lord, ... *Fellow in History.*
Malden, Mass. A.B., Smith College, 1887.

Harriet Randolph, ... *Fellow in Biology.*
Philadelphia, Pa. A.B., Bryn Mawr College, 1889.

Emma Bain, ... *English*, 1889–90.
Martinsville, Ind. A.B., Indiana State University, 1889.

Jessie Brevitt, ... *Chemistry and Physiology*, 1889–90.
Baltimore, Md. M.D., Woman's Medical College, Baltimore, 1889.

Anna B. Carroll, ... *History and English*, 1888–90.
Wilmington, Ohio. A.B., Wilmington College, 1887.

Edith Denise, ... *French and German*, 1889–90.
Burlington, Iowa. B.L., Lake Forest University, 1885.

Mary Eastman Gale, ... *Latin and Mathematics*, 1888–90.
Laconia, N. H. A.B., Swarthmore College, 1882.

Leah Goff, ... *Biology*, 1889–90.
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1889. Demonstrator in Biological Laboratory, Bryn Mawr College.

Helen Howard Jeffries, ... *Latin and Political Science*, 1889–90.
Wooster, Ohio. Ph.B., Wooster College, 1889.

Katharine Merrill, ... *English*, 1889–90.
Abilene, Kansas. A.B., Kansas State University, 1889.

Anna Ely Rhoads, ... *Greek*, 1889–90.
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1889.

Anna Morse Starr, ... *Latin*, 1889–90.
Elyria, Ohio. B.L., Ohio Wesleyan University, 1887.

Marguerite Sweet, ... *English*, 1889–90.
Albany, N. Y. A.B., Vassar College, 1887.

Mary Kingsley Tibbits, ... *English*, 1889–90.
Fredericton, New Brunswick. A.B., University of New Brunswick, 1889.

Bessie C. Todhunter, ... *Greek and Latin*, 1889–90.
Wilmington, Ohio. A.B., Wilmington College, 1889.

Florence Mehitabel Watson, ... *Latin*, 1889–90.
Northfield, Minn. B.L., Carleton College, 1887.

Undergraduates.

MADELINE VAUGHAN ABBOTT, ... *Group,* ———, 1889–90.
Cambridge, Mass. Prepared by Cambridge Latin School, Cambridge, Mass.

ELIZA RAYMOND ADAMS, . . . *Group, History and Political Science,* 1888–90.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind., and by Miss Mary E. Stevens' School, Germantown, Pa.

ALICE HOPKINS ALBRO, ... *Group, Biology and Chemistry,* 1886–90.
Fredonia, N. Y. Prepared by Fredonia State Normal School, N. Y.

ELEANOR ANNE ANDREWS, ... *Hearer in German and English.*
Hampstead, England. Student at Newnham College, 1879-81.

HELEN CULBERTSON ANNAN, . *Group, History and Political Science,* 1887–90.
New York City. Prepared by Mrs. Comegys' and Miss Bell's School, Chestnut Hill, Pa.

EMMA LOUISE ATKINS, ... *Group, Mathematics and Physics,* 1889–90.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

SARAH FRANCES ATKINS, ... *Group,* ———, 1889–80.
Indianapolis, Ind. Classical Course, University of Michigan, 1887–88.

JESSIE ELLEN BARRITT, . . . *Group, History and Political Science,* 1888–90.
Croydon, England. Prepared by Sidcot School, Somersetshire, England, and The Mount School, York, England.

MYRA V. BEDINGER, ... *Group, Mathematics and Physics,* 1888–90.
Anchorage, Kentucky. Prepared by Bellewood Seminary.

ALICE BELIN, ... *Group, German and Latin,* 1888–90.
Scranton, Pa. Prepared by Miss Kate Hand, Scranton, Pa.

LILLIE BIRCH, ... *Group, Greek and Latin,* 1887–90.
Philadelphia, Pa. Prepared by Girls' Normal School, Philadelphia, Pa.

JANE LOUISE BROWNELL, . . . *Group, History and Political Science,* 1889–90.
Bristol, Conn. Prepared by Hartford High School and by private study.

LOUISE SHEFFIELD BROWNELL, ... *Group, Greek and Latin,* 1889–90.
New York City. Prepared by Mrs. Griffitts' School, New York City.

EMILY LOUISA BULL, ... *Group, Greek and Latin,* 1887–90.
Oneonta, N. Y. Prepared by Oneonta Union School, Oneonta, N. Y.

ESTHER F. BYRNES, ... *Group, Biology and Chemistry,* 1887–90.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, Pa., and private study.

ELIZABETH MAXWELL CARROLL, ... *Group, Greek and Latin,* 1888–90.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

EDITH CHILD, ... *Group, Greek and Mathematics,* 1886–90.
Newport, R. I. Prepared by Dr. W. S. Child, Newport, R. I.

HELEN THEODORA CLEMENTS, . *Group, History and Political Science,* 1888–90.
Philadelphia, Pa. Prepared by Ogontz School.

KATE HOLLADAY CLAGHORN, ... *Group, Greek and Latin,* 1889–90.
Brooklyn, N. Y. Prepared by Mr. Caskie Harrison, Brooklyn, N. Y. Passed examination in Columbia College.

MARY VIRGINIA CRAWFORD, ... *Group,* ———, 1889–90.
Bryn Mawr, Pa. Prepared by Miss Baldwin's School and by private study.

LUCY MARTIN DONNELLY, ... *Group, reek Gand Latin,* 1889–90.
Brooklyn, N. Y. Prepared by Adelphi Academy, Brooklyn, N. Y.

ANABEL DOUGLAS, ... *Hearer in English and History,* 1889–90.
Rochester, N. Y. Prepared by Geneseo Normal School, N. Y.

MARGARET DUDLEY, ... *Group,* ———, 1889–90.
Topeka, Kansas. Prepared by Washburn College, Topeka, Kansas.

GRACE A. ELDER, ... *Group*, ———, 1889–90.
Philadelphia, Pa. Prepared by Wellesley Preparatory School, Philadelphia, Pa., and by private study.

RUTH EMERSON, ... *Group, Greek and Latin*, 1889–90.
New York City. Prepared by Miss Gibbons' School, New York.

ANNIE CROSBY EMERY, ... *Group, Greek and Latin*, 1888–90.
Ellsworth, Maine. Prepared by Ellsworth Public Schools, and by one year at school in Dresden.

LOUISE OLIPHANT FULTON, ... *Group, Greek and Latin*, 1889–90.
Philadelphia, Pa. Prepared by Mrs. Sutton's School, Philadelphia, Pa., and by R. H. Fulton, D.D.

MARY RHOADS GARRETT, . *Group, Biology and Chemistry*, 1885–87, 1889–90.
Rosemont, Pa. Prepared by Miss Rachel Ashbridge's School, Philadelphia.

ALICE ELEANORA GARRETSON, ... *Group, Greek and Latin*, 1886–90.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

EMELINE GOWEN, ... *Group, Greek and Latin*, 1885–90.
Mt. Airy, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

EMMA LYDIA HACKER, ... *Group, Biology and Chemistry*, 1888–90.
Saccarappa, Maine. Prepared by Friends' School, Providence, R. I.

JANE BOWNE HAINES, ... *Group, History and Political Science*, 1887–90.
Cheltenham, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa., and by Miss Creeth of Germantown.

EDITH ROCKWELL HALL, . . . *Group, History and Political Science*, 1888–90.
Philadelphia, Pa. Prepared by Miss Case's and Miss Hallowell's School, Phila., Pa.

ELIZABETH HARRIS, ... *Group, Greek and Latin*, 1886–90.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

FRANCES BRODHEAD HARRIS, . *Group, History and Political Science*, 1888–90.
Germantown, Pa. Prepared by Miss Lambdin's School, Germantown, Pa.

HARRIET FRAZIER HEAD, ... *Group, French and Latin*, 1887–90.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

MARGARET HILL HILLES, . . *Group, History and Political Science*, 1889–90.
Wilmington, Del. Prepared by the Misses Hebb and by Mr. E. L. Doan, Wilmington, Del.

ELIZABETH FRANCES HOPKINS, ... *Group*, ———, 1889–90.
Thomasville, Ga. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

HELEN ROLFE HOPKINS, ... *Group*, ———, 1889.
Baltimore, Md. Prepared by the Bryn Mawr School, Baltimore.

MARY ELOISE HOWARD, ... *Group, Latin and Mathematics*, 1889–90.
Norfolk, Va. Prepared by Miss Leach's and Miss Wood's School, Norfolk, Va.

MARY E. HOYT, ... *Group, English and Latin*, 1887–90.
Rome, Georgia. Prepared by Shorter College, Rome, Georgia, and by private study.

FRANCES ELIZABETH HUNT, ... *Group*, ———, 1888–90.
Scranton, Pa. Prepared by School of the Lackawanna, Scranton, Pa., and by Miss Mary E. Stevens' School, Germantown, Pa.

JOSEPHINE JACKSON, ... *Group, German and Latin*, 1889–90.
Richmond, Va. Prepared by St. Timothy's School, Catonsville, Md.

ELIZABETH BRINTON JANNEY, ... *Hearer in Greek and Latin*, 1889–90.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by J. W. Fairies, D.D., Philadelphia, Pa.

HATTIE ELIZABETH JONES, ... *Group, English and Greek*, 1888–90.
Amesbury, Mass. Prepared by Oak Grove Seminary, Vassalboro, Maine, and by Miss Case's and Miss Hallowell's School, Philadelphia, Pa.

DORA KEEN, ... *Group, History and Political Science,* 1888–90 .
Philadelphia, Pa. Prepared by Miss Case's and Miss Hallowell's School, Phila., Pa.

MARGARET D. KELLUM, ... *Group, English and Greek,* 1888–90.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

ABBY KIRK, ... *Group, Greek and Latin,* 1887–90.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa,

JULIA ETHEL LANDERS, ... *Group,* ———, 1889–90.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

CAMILLA LEACH, ... *Hearer in English,* 1889–90.
San Francisco, Cal. Prepared by private study.

ELVA LEE, ... *Group, Greek and Latin,* 1889–90.
Randolph, N. Y. Prepared by Chamberlain Institute, Randolph, N. Y., and by private study.

LUCY LEWIS, ... *Group,* ———, 1889–90.
Philadelphia, Pa. Prepared by Mr. Robert Truitt, Philadelphia, Pa., and by private study.

ANNIE LAURIE LOGAN, ... *Group, Greek and Latin,* 1889–90.
St. Louis, Mo. Prepared by private study.

GERTRUDE MASON LYNCH, . . *Group, History and Political Science,* 1887–90.
Washington, D. C. Prepared by Girls' Classical School, Indianapolis, Ind.

KATHLEEN R. MACFARLANE, . . *Hearer in Mathematics and Physics,* 1889–90.
Rosemont, Pa. Prepared by private study.

MARIAN WILHELMINA MACINTOSH, . . . *Group, Greek and Latin,* 1886–90.
Philadelphia, Pa. Prepared by Miss Gibson's School, Philadelphia, Pa.

MARY TAYLOR MASON, ... *Group, History and Political Science,* 1888–90.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

MARY BELLE MCMULLIN, ... *Group,* ———, 1889–90.
Philadelphia, Pa. Prepared by Miss Gordon's School, Philadelphia, Pa.

LILLIAN VIRGINIA MOSER, ... *Group, French and German,* 1888–90.
Syracuse, New York. Prepared by Syracuse High School, and by private study.

NELLIE NEILSON, ... *Group,* ———, 1889–90.
Philadelphia, Pa. Prepared by Miss Cooper's School, Philadelphia, Pa.

ELIZABETH NICHOLS, ... *Group, Biology and Chemistry,* 1889–90.
Philadelphia, Pa. Prepared by Friends' Central School. Philadelphia, Pa.

RACHEL L. OLIVER, ... *Group, Latin and* ———, 1888–90.
Lynn, Mass. Prepared by Lynn High School and by private study.

HENRIETTA R. PALMER, ... *Group,* ———, 1889–90.
Providence, R. I. Prepared by Providence High School. School of Library Economy, Columbia College, 1887–89.

ETHEL PARRISH, ... *Group, History and Political Science,* 1887–90
Radnor, Pa. Prepared by Miss Case's and Miss Hallowell's School, Philadelphia, Pa.

MARGARET M. PATTERSON, ... *Group, Greek and Latin,* 1886–90.
Denver, Col. Prepared by Pension Lacorne, Paris, France, and by Denver High School.

CAROLINE E. PAXSON, ... *Group, French and German,* 1885–90.
New Hope, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

GRACE PINNEY, ... *Group, Greek and French,* 1887–90.
New York City. Prepared by private study.

ANNA POWERS, ... *Group, Greek and Latin,* 1886–90.
New York City. Prepared by Friends' Central School, Philadelphia, Pa.

BERTHA HAVEN PUTNAM, . . *Group, History and Political Economy*, 1889–90.
New York City. Prepared by Miss Gibbons' School, New York City.

HARRIET ROBBINS, ... *Group, Physics and* ———, 1889–90.
Wethersfield, Conn. Prepared by High School, Hartford, Conn.

HELEN J. ROBINS, ... *Group, English and Latin*, 1888–90.
Bryn Mawr, Pa. Prepared by Miss Case's and Miss Hallowell's School, Phila., Pa.

AMY CORDOVA ROCK, ... *Group*, ———, 1889–90.
Washington, D. C. Prepared by High School, Washington, D. C., by Miss Mary E. Stevens' School, Germantown, Pa., and by private study.

MARY JOHNSON SACKETT, ... *Group, Biology and Chemistry*, 1888–90.
Brooklyn, N. Y. Prepared by Adelphi Academy, Brooklyn, New York, and by private study.

EDITH F. SAMPSON, ... *Group, Biology and Chemistry*, 1886–90.
Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa.

LILIAN VAUGHAN SAMPSON, . . . *Group, Mathematics and Physics*, 1887–90.
Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa.

JANE SCOFIELD, ... *Group, German and Latin*, 1886–90.
Sandy Spring, Md. Graduate Mt. Holyoke Seminary, South Hadley, Mass., 1886.

HARRIET F. SEAL, ... *Hearer in French and Greek*, 1889–90.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by private study.

KATHARINE MORRIS SHIPLEY, ... *Group, English and Latin*, 1885–90.
Cincinnati, O. Prepared by Bartholomew English and Classical School, Cincinnati, O.

ALYS WHITALL SMITH, . . . *Group, French and German*, 1885–88, 1889–90.
Philadelphia, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

HELEN R. STAPLES, ... *Group*, ———, 1889–90.
Dubuque, Iowa. Prepared by Dubuque High School, and by Lasell Seminary, Auburndale, Mass.

ELIZA PULLAN STEPHENS, ... *Group, French and Latin*, 1888–90.
Trenton, N. J. Prepared by Friends' Central School, Philadelphia, Pa., and private study.

LOUISA BRIER STEPHENS, ... *Group*, ———, 1889–90.
Cedar Rapids, Iowa. Prepared by Mr. George J. Brown and Mr. Alonzo Brown.

MARY STEPHENS, ... *Group, Biology and Chemistry*, 1887–90.
Cedar Rapids, Iowa. Prepared by Coe Preparatory School and College, Cedar Rapids, Iowa.

GERTRUDE ELIZABETH TAYLOR, ... *Group, Greek and Latin*, 1889–90.
Cambridge, Ohio. Prepared by McDonald Ellis School, Washington, D. C., and by Centenary Collegiate Institute, Hackettstown, N. J.

MARY LEWIS TAYLOR, ... *Group, Mathematics and Physics*, 1888–90.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

HELEN WHITALL THOMAS, ... *Group*, ———, 1889–90.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

MARTHA GIBBONS THOMAS, ... *Group, Biology and Chemistry*, 1885–90.
Whitford, Pa. Prepared by private study.

LUELLA H. THORNE, ... *Group, Greek and Latin*, 1885–87, 1888–90.
Skaneateles, N. Y. Prepared by Skaneateles Union School and Academy, N. Y.

UMÉ TSUDA, ... *Special Student in English and History*, 1889–90.
Tokio, Japan. Teacher in Peeresses' School, Tokio, Japan, 1884–88.

EMILY RACHEL VAIL, ... *Group, Greek and Latin*, 1886–87, 1888–90.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

SUSAN FRANCES VAN KIRK, ... *Group*, ———, 1889–90.
Philadelphia, Pa. Prepared by Miss Case's and Miss Hallowell's School, Philadelphia.

EMMA PHILLIPS VAN NORDEN, ... *Group, Greek and Latin*, 1889–90.
New York City. Prepared by The Brearley School, New York City, and by private study.

ANNIE DE BENNEVILLE WAGNER, ... *Group*, ———, 1888–90.
Germantown, Pa. Prepared by Mrs. Head's School, Germantown, Pa.

ANNA MARTHA WALKER, ... *Group, Greek and Latin*, 1889–90.
Glen Moore, Pa. Prepared by Darlington Seminary, West Chester, Pa., and by Miss Stevens' School, Germantown, Pa.

SUSAN GRIMES WALKER, ... *Group*, ———, 1889–90.
Boston, Mass. Prepared by The McDonald Ellis School, Washington, D. C., and by private study.

MATHILDE WEIL, ... *Group, English and Latin*, 1887–90.
Philadelphia, Pa. Prepared by Mr. and Mrs. L. M. Johnson's School, Philadelphia, Pa.

EDITH WETHERILL, ... *Group, History and Political Science*, 1888–90.
Philadelphia, Pa. Prepared by Miss Case's and Miss Hallowell's School, Phila., Pa.

AGNES MARY WHITING, ... *Group, French and German*, 1889–90.
Springfield, Mass. Prepared by Miss Catharine L. Howard's School, Springfield, Mass.

KATHERINE TABER WILLETTS, ... *Group, Greek and Latin*, 1886–90.
New York City. Prepared by Miss Anna C. Brackett's School and by Mrs. Julia J. Irvine, of New York City.

MARIAN A. WRIGHT, ... *Group, German and Latin*, 1887–90.
Germantown, Pa. Special Student, Smith College, 1883–84. Prepared by Miss Florence Baldwin, of Bryn Mawr, Pa.

Former Fellows and Graduate Students.

JANE M. BANCROFT, ... *Fellow in History*, 1885–86.
West Stockbridge, Massachusetts. Ph.B., Syracuse University, 1877; Ph.M., 1880; and Ph.D., 1884; Professor of French Language and Literature, Northwestern University, Evanston, Illinois, 1877–85; student in the University of Zürich, 1886–87, and student in the Sorbonne and the Collége de France, 1888.

CORA AGNES BENNESON, ... *Fellow in History*, 1887–88.
Quincy, Illinois. A.B., University of Michigan, 1878; LL.B., 1880; and A.M., 1883.

KATE MAY EDWARDS, ... *Fellow in Greek*, 1888–89
Ithaca, New York. A.B., Cornell University, 1888. Instructor in Greek, Wellesley College.

KITTY AUGUSTA GAGE, ... *Fellow in Greek*, 1885–86.
Wilton, New Hampshire. A.B., Boston University, 1878; A.M., Cornell University, 1885 Teacher of Classics in the State Normal School, New Paltz, New York.

MARY GWINN, ... *Fellow in English*, 1885–87.
Baltimore, Maryland. Studied at the University of Leipsic, 1879–82, and at the University of Zurich, 1882; gradnate student Bryn Mawr College, 1887–88, and Ph.D., Bryn Mawr College, 1888; Associate in English, Bryn Mawr College.

HELEN L. LOVELL, ... *Fellow in Greek*, 1887–88.
Flint, Michigan. A.B., University of Michigan, 1887. Teacher of Greek and Latin at Girls' Classical School, Indianapolis, Ind.

GERTRUDE H. MASON, ... *Fellow in English*, 1887–88.
San José, California. Ph.B., University of Michigan, 1876, and Ph.M., University of Michigan, 1888; Teacher of English in Petaluma High School.

MARCELLA I. O'GRADY, ... *Fellow in Biology*, 1887–89.
Boston, Mass. S.B., Massachusetts Institute of Technology, 1885; Teacher of Science in the Bryn Mawr School, Baltimore, Md., 1885-87; Demonstrator Biological Laboratory, Bryn Mawr College, 1888-89; Instructor in charge of Biological Department Vassar College.

LUCY M. SALMON, ... *Fellow in History*, 1886–87.

Fulton, New York. A.B., University of Michigan, 1876, and A.M., 1883; Teacher of History in the Indiana State Normal School, 1883–86; Associate Professor of History, Vassar College.

SARAH E. SATTERTHWAITE, ... *Fellow in Greek*, 1886–87.

Adrian, Michigan. A.B., University of Michigan, 1886.

EFFIE A. SOUTHWORTH, ... *Fellow in Biology*, 1885–86.

North Collins, New York. S.B., University of Michigan, 1885; Fellow in Biology, Bryn Mawr College, 1885–86, and Student-Assistant in the Biological Laboratory, 1886–87; Assistant Mycologist of the United States Agricultural Bureau, Washington.

ANNE A. STEWART, ... *Fellow in Mathematics*, 1886–87.

West Bay, Nova Scotia. Studied in University College, London, 1880–82; B.Sc., Dalhousie College, Halifax, Nova Scotia, 1886; Teacher of Mathematics in Miss Mary E. Stevens' School, Germantown, Pa.

ELLA C. WILLIAMS, ... *Fellow in Mathematics*, 1885–86.

Watkins, New York. A.M., University of Michigan, 1880; studied under Professor Schwartz, of Göttingen, nineteen months, 1883–85; in residence at Newnham College during the spring term of 1884; Teacher of Mathematics in Miss Moses' School, 647 Madison Avenue, New York City, 1886–87; Teacher in State Normal School, Plymouth, New Hampshire.

JEANNETTE S. BROWN, ... *Greek*, 1886–87.

Graduate Harvard Annex, 1885; Teacher of Greek and Latin, Bryn Mawr School, Baltimore.

AGNES EMORY, ... *Greek and Latin*, 1886–87.

Lawrence, Kansas. A.B., University of Kansas, 1884.

MARY H. FREEMAN, ... *Romance Languages*, 1885–87.

Mumford, New York. A.B., Vassar College, 1881, and A.M., 1887; Teacher in the State Normal School, New Paltz, New York.

FLORENCE HALL, ... *Gothic, Middle High German and Spanish*, 1888–89.

Swarthmore, Pa. A.B., Swarthmore College, 1880. Teacher of German in Friends' Central School, Philadelphia, Pa.

SUSAN RACHEL HARRISON, ... *Greek and Latin*, 1885–87.

Richmond, Indiana. A.B., Earlham College, 1883.

CAROLINE E. HILLIARD, ... *Chemistry*, 1885–86.

Northboro', Mass. A.B., Smith College, 1883.

ALICE W. JACKSON, ... *History and Political Science*, 1888–89.

Germantown, Pa. A.B., Swarthmore College, 1883.

MARY A. JOHNSON, ... *Biology*, 1887–89.

New York City. L.B., Smith College, 1885, and A.M., 1888; studied at Newnham College, 1886–87. Holder of Scholarship at the Woman's Medical College, Phila., Pa.

ROSA ELLEN LEWIS, ... *English*, 1888–89.

Oskaloosa, Iowa. S.B., 1882, Penn College, Iowa, and A.M., 1885; Professor of English Literature and History, Penn College, Iowa.

SARAH ELVA LEWIS, ... *English and History*, 1888–89.

Estacado, Texas. S.B., Penn College, 1883; Superintendent of Schools, Estacado.

DOROTHY WILBERFORCE LYON, ... *English*, 1887–89.

Meadville, Pa. A.B., Wells' College, 1887.

GEORGIANA LEE MORRILL, ... *English*, 1888–89.

Germantown, Pa. A.B., Vassar College, 1882; A.M. Vassar College, 1889.

JULIA BARLOW PLATT, ... *Biology*, 1888–89.

Burlington, Vt. Ph.B., University of Vermont, 1882; Harvard Annex, 1886–88.

SARAH M. POTTER, ... *English and History*, 1886–87.

Glen's Falls, N. Y. A.B., Wellesley College, 1884.

ZILLAH M. SHERMAN, ... *English*, 1887–88.

Ashtabula, Ohio. A.B., Wells' College, 1882. University of Michigan, 1888–89.

MARY TREMAIN, ... *English and History*, 1886–87.
Lincoln, Nebraska. S.B., Nebraska State University, 1881.

EMILY F. WHEELER, ... *Modern Languages*, 1887–88.
Rockford, Ills. A.B., Northwestern University, 1875, and A.M., 1880.

ELLEN C. WRIGHT, ... *English and Latin*, 1888–89
Wilmington, O. A.B., Wilmington College, 1875.

Former Undergraduate Students that have taken their Degree at Bryn Mawr College.

ALICE ELIZA ANTHONY, ... *Group, History and Political Science.*
South Manchester, Conn. Prepared by Friends' School, Providence, R. I. A.B., 1889.

EMILY FRANCES ANTHONY, ... *Group, History and Political Science.*
South Manchester, Conn. Prepared by Friends' School, Providence, R. I. A.B., 1889.

EMILY GREENE BALCH, ... *Group, Greek and Latin.*
Jamaica Plain, Mass. Prepared by Miss Ireland's School, Boston, Mass. A.B., 1889. Bryn Mawr European Fellow, 1889–90.

CATHERINE E. BEAN, ... *Group, English and German.*
San José, Cal. Classical Course, University of the Pacific, San José, 1884–85. A.B., 1889. Teacher of English in the Academic Department of the University of the Pacific, San José.

ELIZABETH MILLER BLANCHARD, ... *Group, Greek and Mathematics.*
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa. A.B., 1889. Fellow in Mathematics, Bryn Mawr College, 1889–90.

MARY MILES BLANCHARD, ... *Group, Biology and Chemistry.*
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa. A.B., 1889.

MABEL P. CLARK, ... *Group, English and Greek.*
New York City. Prepared by Miss Gibbons' School, New York City. A.B., 1889. Fellow in English, Bryn Mawr College, 1889–90.

HELEN CECILIA COALE, ... *Group, Biology and Chemistry.*
Baltimore, Md. Prepared by Miss Pindell's School, Baltimore. A.B., 1889.

JULIA COPE, ... *Group, Biology and Chemistry.*
Philadelphia, Pa. Prepared by Miss Burnham's School, Northampton, Mass. A.B. 1889. Secretary of Bryn Mawr College.

HELENA STUART DUDLEY, ... *Group, Biology and Chemistry.*
Denver, Colorado. Massachusetts Institute of Technology, 1884–85. A.B., 1889. Teacher of Chemistry in the Packer Collegiate Institute, Brooklyn, N. Y.

LOUISE R. ELDER, ... *Group, Greek and Latin.*
Philadelphia, Pa. Prepared by Mrs. L. M. B. Mitchell's School, Philadelphia. A.B., 1889.

SUSAN BRALEY FRANKLIN, ... *Group, Greek and Latin.*
Newport, R. I. Prepared by Rogers' High School, Newport, R. I. A.B., 1889. Fellow in Greek, Bryn Mawr College, 1889–90.

LEAH GOFF, ... *Group, Biology and Chemistry.*
Bryn Mawr, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1889. Demonstrator in the Biological Laboratory, Bryn Mawr College.

ALICE BACHE GOULD, ... *Group, Mathematics and Physics.*
Cambridge, Mass. Prepared by Miss Ireland's School, Boston, Mass. A.B., 1889.

MABEL HUTCHINSON, ... *Group, Greek and Latin.*
Des Moines, Iowa. Classical Course, Penn College, 1884–85. A.B., 1889.

CAROLINE LAWRENCE, ... *Group, History and Political Science.*
Saratoga Springs, N. Y. Art Student, Smith College, 1883-84; Special Student, 1885. A.B., 1889.

MARY MCMURTRIE, ... *Group, History and Political Science.*
Philadelphia, Pa. Prepared by private study. A.B., 1889.

MARY GRAFTON PATTERSON, ... *Group, French and German.*
Denver, Col. Prepared by Pension Lacorne, Paris, France, and by private study. A.B. 1888.

HARRIET RANDOLPH, ... *Group, Biology and Chemistry.*
Philadelphia, Pa. Prepared by private study. A.B., 1889. Fellow in Biology, Bryn Mawr College, 1889-90.

ANNA ELY RHOADS, ... *Group, Greek and Latin.*
Bryn Mawr, Pa. Prepared by Friends' School, Germantown, Pa., and by private study. A.B., 1889. Graduate student at Bryn Mawr College, 1889-90.

ELLA RIEGEL, ... *Group, History and Political Science.*
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia. A.B., 1889.

ANNE TAYLOR, ... *Group, English and French.*
College Hill, Cincinnati, Ohio. Prepared by Belmont College, College Hill, Ohio. A.B., 1889.

EMILY JAMES SMITH, ... *Group, Greek and Mathematics.*
Canandaigua, N. Y. Prepared by Mr. J. H. Lee and Mr. D. L. Satterthwaite of Canandaigua, N. Y. A.B., 1889.

MARGARET CHESTON THOMAS, ... *Group, French and German.*
Baltimore, Md. Prepared by Miss Pindell's School, Baltimore. A.B., 1889.

SOPHIA WEYGANDT, ... *Group, Greek and Latin.*
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1889

Bryn Mawr College.

Bryn Mawr College, situated at Bryn Mawr, Pennsylvania, ten miles from Philadelphia, was endowed by Dr. Joseph W. Taylor, of Burlington, New Jersey, who proposed to found an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education that are so freely offered to young men." The site of the college was purchased and the buildings were begun during the lifetime of the founder, who died in 1880. In the same year the college was incorporated by the authority of the State of Pennsylvania, and invested with power to confer degrees. A circular of information was issued by the Trustees in 1883. A President and a Dean of the Faculty were elected in the spring of 1884. During the remainder of the year 1884 plans were matured and appointments made in the Faculty; in the autumn a second circular of information was issued, and an office at which to receive applications was opened in Philadelphia. The courtesy of the presiding officers and instructors of existing universities and colleges facilitated an acquaintance with the prevalent collegiate systems; and the domestic organisation of the women's colleges, Vassar, Smith, and Wellesley, received careful consideration. To the Johns Hopkins University acknowledgment is especially due, since from it has been borrowed the system of major and minor electives in fixed combination. In the spring of 1885 the first program was issued, and the college opened for instruction in the following autumn with forty-four students. ***Introductory Statement.***

Three classes of persons will be admitted to the lectures and class-work of the college:—graduate students, undergraduate students, and hearers. ***Admission***

Graduate students must have presented a diploma from some college of acknowledged standing. They may pursue the advanced or graduate courses offered by the college, although the instructors in the several departments may require of them ***Graduate Students.***

certain introductory or auxiliary studies; they are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations, from the instructors. Their needs will be considered in the arrangement of new courses of lectures.

Fellows. The most distinguished place among graduate students will be held by the Fellows. Five Fellowships are awarded annually —one in Greek, one in English, one in Mathematics, one in History and one in Biology. They are awarded as an honor and are intended to be an indorsement of previous attainments; they entitle the holder to free tuition, a furnished room in the college buildings, and the sum of three hundred and fifty dollars yearly.* They are open to graduates of Bryn Mawr College, or of any other college of good standing. No one may compete that has not a college degree or a certificate of prolonged study under well-known instructors; and, generally speaking, the Fellowship will be given to the candidate that has studied longest or whose work affords the best promise of future success. All applications should be made as early as possible, and must be made by the 15th of April preceding the year for which the Fellowship is desired. Blank forms will be forwarded to the applicant. A definite answer will be given within four weeks from the last date fixed for application. The holder of a Fellowship is expected to show, by the presentation of a thesis, or in some other manner, that her studies have not been without result. All Fellows may study for the degree of Doctor of Philosophy, the Fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts. Those that continue their studies at the College after the expiration of the Fellowship, may, by vote of the Trustees, receive the rank of Fellows by Courtesy.

Undergraduate Students. Undergraduate students must have fulfilled the requirements for matriculation. The studies leading to the degree of Bachelor of Arts are stated on page 20. Those students, that do not wish to study for a degree, are required to enroll themselves as special students; they will, nevertheless, in the event of a change of plan be credited with such of their studies as may have coincided with the studies leading to a degree. All special students must have passed the examination for matriculation. Attention is called to the fact that the Group system enables all candidates for a degree to specialise in one or more subjects.

Special Students.

* Board will be charged at the regular college rates of $150 for the scholastic year.

Hearers.

Hearers will be excused from passing the matriculation examination: but they will be strictly distinguished from matriculates, and will not be entitled to reside in the college. They must be women of at least twenty-five years of age, and must furnish proof that they have at some time pursued the studies included in the matriculation examination. They must satisfy the several instructors that they can profit by the courses that they desire to follow, and their admission to recitations, examinations, and laboratory exercises, will depend on the express consent of the instructor in charge. Hearers differ moreover from special students in that they are not recognised by the college, and can receive only such certificates of collegiate study as may be given them by the several instructors. They cannot receive degrees.

Examination for Matriculation.

The examination for matriculation must be taken by all that wish to pursue their studies at the college, either as candidates for a degree or as special students.* The examination for matriculation will also be open to those that wish to take it as a test of proficiency in elementary studies, but have no intention of entering the college.

Candidates may divide the examination between two successive years; if, however, more than one calendar year and the summer recess elapse between the two parts of the examination, the first part of the examination must be repeated.

Blank forms of application for admission should be obtained from the President.

Examinations are held in June and September of every year at Bryn Mawr College; and in June of every year, examinations are held also in Baltimore. Examinations may also be held in June, by request, in Germantown, Boston, Cincinnati and California, and will be conducted by the Honorary

* But candidates that present a certificate of honorable dismissal from some college or university of acknowledged standing, or candidates that have passed the Harvard University examinations for women held in Cambridge, New York, and Cincinnati will be admitted, whenever the examination has covered the same or equal ground in the subjects required for matriculation in the college. For regulations concerning "hearers," see above.

The following subjects in the Harvard University examinations for women are suggested as equivalents: All the "elementary studies" except German, *or* French, *or* Greek: and the "advanced studies" in the three languages chosen; in Latin composition; and, if Greek be taken, in Greek composition. The "Elementary studies" in Latin, Greek, French or German will not be accepted as a substitute for any part of the examination on these subjects.

In no other cases will certificates be accepted.

Corresponding Secretaries, who will also answer enquiries in regard to the examinations or the College.

Tabular Statement.—All candidates for matriculation *must* be examined in the following three groups:

I.	II.	III.
Mathematics { Arithmetic, 1. Algebra, 1. Plane Geometry, 1.	*Latin* { (Grammar and Composition, Cæsar and Cicero,) 2. Virgil and sight reading, 1.	History, 1. English, 1. Science, 1.

All candidates for matriculation *must* be examined in one of the following groups:

IV.	IV.	IV.
Greek { Gram. and Comp., Xenophon, } 2. Iliad and sight reading, 1. *and* *French* { Grammar, Prose, Poetry, } 3.	*Greek* { Gram. and Comp., Xenophon, } 2. Iliad and sight reading, 1. *and* *German* { Grammar, Prose, Poetry, } 3.	*French* { Grammar, Prose, Poetry, } 3. *and* *German* { Grammar, Prose, Poetry, } 3.
or	*or*	

The candidate *may* be examined in the following subjects, and if not examined, must pursue them in college:

Advanced Mathematics { Solid Geometry, Plane Trigonometry.

A fourth language, { *Greek* (as above) *or* *French* (as above) *or* *German* (as above).

The subjects in which the candidate for matriculation *must* be examined are divided, for convenience of marking, into fifteen sections. It will be observed that each language is counted as three sections. Groups I., II., and III. contain three sections each; group IV. contains six sections. The figures attached to the subjects show the number of sections contained in each subject; where a bracket precedes the figure, the subjects enclosed by the bracket cannot be separated in the examination. Should the candidates pass in fewer than three sections in the first division of the examination, the entire examination must be repeated; but the three sections need not, except where this is indicated by the brackets, belong to one and the same group. Solid Geometry and Trigonometry cannot be substituted for any part of the fifteen sections.

Mathematics. *I.* **Mathematics.**—(1) *Arithmetic.* (2) *Algebra,* through Quadratic Equations; Ratio; Proportion; Variation; Arithmetical and Geometrical Progression. (3) *Plane Geometry.*

Since many complicated parts of arithmetic are simplified and explained by the study of the higher mathematics, candidates are advised to offer only the following portions of school-arithmetic: Fundamental Rules; Fractions; Decimals; Discount; Percentage; Simple and Compound Interest; Proportion; Compound Numbers and the Metric System, all tables necessary to the student being given; Square root.

All candidates that do not, in addition to the above, present *Solid Geometry* and *Trigonometry* must pursue these branches in the college and pass an examination in them before receiving a degree. It is especially recommended that those intending to elect mathematical courses should pass the entire matriculation examination in mathematics. These candidates are advised to confine themselves to Algebra; Plane Geometry of the straight line and the circle; Solid Geometry and Trigonometry. More benefit will be derived from a thorough acquaintance with the pure geometrical methods, than from a little knowledge of Analytical Geometry.

Students whose matriculation examination has included either Solid Geometry, or Trigonometry, or both, will be credited with the time which others must subsequently spend upon these studies.

II. **Latin.**—(1) *Grammar and Composition.* (2) *Cæsar*, Gallic War, Books I.–IV. (or, if desired, *Ovid*, Metamorphoses, two thousand lines). *Cicero*, seven orations, including the four against Catiline. (3) *Virgil*, Æneid, Books I.–VI. (or the Eclogues and five books of the Æneid). *Latin.*

There will be questions testing the candidate's practical knowledge of grammar, including prosody, and translation of English into Latin.

The candidate will be expected to translate at sight easy passages with due allowance for unusual words.

Equivalents will be accepted to some extent, but all candidates must have read (*a*) Cicero, at least four orations, (*b*) Virgil, at least three books of the Æneid.

The so-called Roman method of pronunciation, as explained in Allen and Greenough's Latin Grammar, is recommended.

As many schools are introducing the "natural method" as a substitute for thorough grammatical training, attention is called to the fact that special stress will be laid on an accurate and ready knowledge of grammatical forms. A knowledge of paradigms and parts of irregular verbs will be insisted upon.

The examination in Latin may be divided in the following manner only: (*a*) Grammar, Composition, Cæsar, and Cicero; (*b*) Virgil and sight reading. Candidates are advised, whenever possible, to try the whole Latin examination at one time.

III. **History.**—(1) The outlines of the History of England and the United States; *or* the outlines of the History of Greece and Rome. *History.*

Students that expect to enter the classical courses are advised, whenever the choice is given by the fitting school, to offer the outlines of Greek and Roman History. All others are advised to offer the outlines of English and United States History.

Johnston's History of the United States, Thompson's History of England, Dr. Smith's Shorter History of Greece, and Leighton's History of Rome are recommended.

English.—(1) The candidate will be required to write a short English composition, correct in spelling, grammar, punctuation, and general arrangement, and to correct specimens of bad English. *English.*

In 1890 the subject will be taken from one or more of the following works; with which the candidate must be familiar: *Shakespeare*, Coriolanus and Merchant of Venice; *Chaucer*, The Knight's Tale; *Ruskin*, Sesame and Lilies; *Thackeray's* English Humorists.

In 1891 candidates must be familiar with *Shakespeare*, Julius Cæsar and As You Like It; *Chaucer*, The Clerk's Tale; *Ruskin*, Sesame and Lilies; *Austin Dobson*, Eighteenth Century Essays.

The books recommended (for the years 1890 and 1891), by the Commission of Colleges of New England, will be accepted as equivalents.

Candidates are required to be familiar with the subject-matter of these works, but a critical study of them is not recommended. Much stress will be laid on an intelligent knowledge of the elements of English composition and grammar, and no candidate can be successful in passing the examination without familiarity with the essentials of punctuation and arrangement. This can be acquired only by constant practice in the composition of short essays. Abbott's *How to Write Clearly* is recommended as an aid to the knowledge of correct arrangement.

Science.—(1) The elements of one of the following sciences:—Physics, *or* Chemistry, *or* Botany, *or* Physiology, *or* Physical Geography. *Science.*

Balfour Stewart's Primer of Physics, Roscoe's Primer of Chemistry, Gray's "How Plants Grow," Foster's Primer of Physiology and Russell Hinman's Geography are trongly recommended.

IV. Two of the following languages :

Greek. **Greek.**—(1) *Grammar and Composition.* (2) *Xenophon,* Anabasis, Books I–IV. (3) *Iliad,* Books I–III.

White's First Lessons in Greek and Jones' Exercises in Greek Prose, or equivalents, are recommended.

There will be questions on grammar suggested by the text, and translation at sight of easy passages from Xenophon and the Iliad, with due allowance for unusual words.

Equivalents will be accepted to some extent, but all candidates must have read (*a*) Homer, at least two books of the Iliad, (*b*) Xenophon, at least two books of the Anabasis or Memorabilia.

The examination in Greek may be divided in the following manner only : (*a*) Grammar, Composition, and Xenophon ; (*b*) Iliad and sight reading.

French. **French.**—(3) The examination in French will have three divisions, one to test the candidate's knowledge of pronunciation and ordinary grammatical forms, the other two her power to read at sight ordinary French prose and verse.

For the examination in reading no texts are assigned, the examination being intended to test the candidate's ability to read any ordinary French whatsoever. Candidates preparing for these examinations are advised to acquire as large a vocabulary as possible.

The examination in French cannot be divided.

German. **German.**—(3) The examination in German will be precisely similar to that in French, and will test the candidate's pronunciation, knowledge of ordinary grammatical forms, and ability to read ordinary German at sight.

The examination in German cannot be divided.

The candidate may omit one of the three languages, Greek, French, or German, selecting Greek and French, or Greek and German, or French and German.

Remarks on Examination for Matriculation.

All subjects potentially included in the examination for admission are regarded by the college as preparatory and non-collegiate. The college course of instruction in mathematics, for example, does not include but presupposes trigonometry; the courses in French and German presuppose a reading knowledge of these languages.

It is therefore to the interest of every student to offer, at entrance, advanced mathematics, and if possible all four languages; remembering that even to fail in such of these examinations as are not strictly obligatory, will not affect the candidate's collegiate standing, and that to pass them successfully would leave her nearly free for elective study under the Group system and for true collegiate work. Great pains have been taken in the organisation of the collegiate courses; and it is not desirable that the time of students within the college should be needlessly withdrawn from these and spent upon preparatory work.

Studies Leading to the Degree of Bachelor of Arts.

No student will be graduated who does not at the time of graduation possess a reading knowledge of French and German and some acquaintance with Latin. In the last semester before graduation, an oral examination will be held to test the candidate's power of reading French and German at sight. The college provides beginners' classes, five times weekly

throughout one year, for those students who in the examination for matriculation may have omitted Greek, French or German; but attendance on these classes is not obligatory, the student being free to make good her deficiencies by private reading.

The following course of study must be pursued by every candidate for the degree of Bachelor of Arts.

Required Studies.

English, five hours a week for two years.

Science, or *Science and History*, five hours a week for two years; that is, any one of the major courses in Science, or any two minor courses in Science; or any one of the minor courses in Science, together with one of the minor courses in History.

Philosophy, five hours weekly for a year.

Group.

Two Major Courses, of five hours weekly for two years each, constituting one of the following "Groups:" Any language with any language, Mathematics with Physics, or Mathematics with Greek or Latin; any science with any science; History with Political Science.

Free Electives.

Free Electives, five hours weekly for a year and a half, to be chosen by the student. It should be observed that a single study may be taken as a Free Elective, without electing the group that includes it. Students wishing to combine Physics with either Chemistry or Biology must take at least a half year of Mathematics as a Free Elective.

It is expected that the student will consult the Dean of the Faculty in regard to the details and best arrangement of the various studies.

The students are not divided into the traditional college classes, nor is there any time set for graduation; in order to pursue a wider course of reading in connection with single subjects, or to attend a greater variety of lectures, the ablest students may choose to defer graduation, and, on the other hand, the usual period of collegiate study may be abridged; personal considerations only will determine the time spent in completing the studies required for a degree. Nevertheless, these requirements constitute strictly a Four Years' Course; that is to say, if the usual time given to lectures and class-work be computed at fifteen hours weekly, a student that passed the ordinary matriculation examination, and availed herself of the preliminary courses of the college on the subjects which that examination did not include, would in all cases require precisely four years.

The Bryn Mawr European Fellowship.

The Bryn Mawr European Fellowship will be awarded annually to a member of the graduating class of Bryn Mawr College on the ground of excellence in scholarship. The holder will receive the sum of five hundred dollars, applicable to the expenses

of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the college.

Studies Leading to a Second Degree. Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may, at their discretion, enroll themselves as candidates for the Degrees of Doctor of Philosophy and Master of Arts. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

The Degree of Doctor of Philosophy. All candidates for the degree of Doctor of Philosophy and Master of Arts, must pursue for three years, after having received their first degree, a course of liberal (non-professional) study at some college or university approved by the Faculty, and spend at least two of these years at Bryn Mawr College. They must be examined in two, and may at their discretion be examined in three subjects (the examination being of equal difficulty in either case); and must present a satisfactory dissertation on some topic included in their first or principal subject. They may be required to pursue certain auxiliary studies in connection with the subjects that they have elected; and the degree of Doctor of Philosophy, like that of Bachelor of Arts, will be given to no one who cannot read French and German, or who is wholly unacquainted with Latin and Greek. The dissertation must be printed. The degree of Doctor of Philosophy will in no case be conferred by the college as an honorary degree.

The Degree of Master of Arts. Candidates for a separate degree of Master of Arts, which will be conferred only on graduates of Bryn Mawr College, must reside at the college for at least one year after graduation, and pursue and pass an examination on a course of liberal study approved by the Faculty.

Residence. Residence in the college is not obligatory. During the past five years students living in Philadelphia or in the neighborhood of Bryn Mawr have attended the daily lectures and class-work of the college; others, finding it inconvenient to return home every day, have resided in the college for five days of the week.

The college buildings intended for residence contain single rooms and sets of rooms. The halls will accommodate about fifty students, and each hall will be under the care of a lady who will reside in the building. There will be no common refectory, nor any inter-dependence between the halls. Compare the accompanying plans of Merion Hall, Radnor Hall and Denbigh Hall, which the other halls will resemble in the essential parts of their internal arrangement, such as furniture, heating, and light; compare also the general account of the buildings on page 52.

Expenses.

The charge for tuition is one hundred dollars a year, irrespective of the number of courses attended, or of the actual time of attendance. It is the same for undergraduate students, graduate students, and hearers. An additional charge of fifteen dollars a year is made for materials, in every laboratory course.

A special exception will be made in favor of non-resident medical students and physicians, who will be charged for a single course in chemistry or biology fifty dollars, and for two courses one hundred dollars, the laboratory charges being the same for them as for other students. A course is held to be five hours weekly of lectures and class-work throughout the year.

The charge for board and residence will be two hundred and seventy-five dollars a year for each student occupying a single room, and three hundred dollars for each student occupying, together with another student, a set of three rooms, or one of the larger single rooms. Students that remain at the college during the winter and spring vacations will be charged seven dollars, or eight and a half dollars weekly, according to the rooms occupied. The charge for a student occupying a bedroom and private study will be four hundred dollars, and in vacations ten dollars a week.

The charge for board and residence includes all expense of service, heating and light, except open fires and washing. There are open fire-places in nearly all the studies, but the rooms will be sufficiently heated by steam. A fixed annual charge is made for washing (see the description of Merion Hall, Radnor Hall and Denbigh Hall) when students prefer to have their washing done in the college.

The charge for tuition is accordingly $100 a year, payable in advance.

The charge for residence in the college halls, exclusive of board, is $125, $150 (or in special cases, $250) a year, payable in advance.

The charge for board is $150 a year; one half payable half-yearly in advance.

The charge for board, residence and tuition is, therefore, $375 and $400 (or in special cases $500) a year.

A Students' Educational Fund has been established for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed will be distributed by the college in the form of partial aid, and in most cases as a loan. It will be applied to the assistance of those students only who have attended courses in the college for at least one year.

Three Partial Scholarships of $200 each will be open to members of the Society of Friends that are unable to pay the full charge for tuition and residence. When there are more than three applicants the candidates will be selected by competitive examination; in all cases graduate students will be preferred, and in no case can the scholarship be held by any one that has not passed the matriculation examination with credit. These scholarships will be for one year only, but may be renewed until graduation when the progress of the student is satisfactory to the Faculty.

INSTRUCTION.

Libraries. The College Library will be as far as possible a library for special study, and is open for the use of the students from eight A.M. to ten P.M. every day. The library takes ninety-five scientific, literary, and philological periodicals and reviews in the English, German, French, Italian and Swedish languages, and the sum of three thousand dollars is expended yearly for books under the direction of the heads of the several collegiate departments. There are at present on its shelves 7215 bound volumes and 325 pamphlets. They are catalogued according to the Dewey system.

In Philadelphia there are the following important libraries:

The *Philadelphia Library*, which contains about 145,000 volumes. The library will at all times be open to the students for consultation; and students can obtain books on the shares held by the officers of the College. Private subscription, $12 a year for eight volumes, or $10 for nine months.

The *Mercantile Library*, which contains 150,000 volumes. Students can obtain books on the shares held by the College Library. Private subscription, $6.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains 30,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

Laboratories. The chemical laboratory consists of a lecture-room, a working laboratory, preparation and balance rooms and a chemical library. The supply of apparatus and chemicals has been carefully selected for the purposes of instruction and research, and

is increasing from year to year. The chemical library contains besides necessary treatises and reference books several complete sets of chemical journals. A similar suite of five rooms is appropriated to the biological department; it includes two laboratories, one of which is exclusively botanical. The biological laboratories are equipped with the best (Zeiss) microscopes, microtomes, etc., and are supplied with a small but well-selected set of apparatus for the study of experimental physiology. A separate building containing a physical laboratory and lecture-room was furnished with apparatus and opened in the autumn of 1887. The chemical, biological and physical laboratories are open for students throughout the day.

The Group System.

It is much to be desired that all undergraduate students should enroll themselves as candidates for the degree of Bachelor of Arts, and, therefore, that they should understand the precise scope and nature of the studies leading to that degree, and the significance of the Group system. A proper understanding of the Group system is, moreover, essential in order to comprehend the distribution and arrangement of the courses of instruction.

In all departments as yet organised there is a course of five hours a week for two years, called a Major Course. Whenever one year of this course is of such a nature that it can be taken separately, it is marked as a Minor Course. It is required of every candidate for a degree to take two such major courses as shall be homogeneous, or shall complete each other, and major courses which fulfil this condition are designated as Groups. It is meant that the student, under this system, should lay the foundations of a specialist's knowledge; and the Required Stdies, namely, English, philosophy and science, or history and science, are intended in part to supplement the Group, and in part to ensure a more liberal training than could be achieved did every student combine elective studies at pleasure. The two years' required course in English includes a general introduction into the study of language. English literature will be treated with steady reference to the comparative history of literature; and the entire course will be so planned as to give unity and domestic application to the pursuits of students of philology, and to acquaint students of science or of history, in so far as this is possible in a special course, with the results, scope, and methods of the study of language and literature. The required two years in science, or in science and history, permit the student of chemistry and biology to pursue both branches

of the biological course, or to take a major course in physics; and they ensure to the student of history and of language, for one year at least, the same kind of instruction and discipline as is received by the scientific student. The one year's course in philosophy is a general introduction into the study of the laws, conditions, and history of thought.

The "Minor Courses" in the following table are known as the Required Studies; the "Two Major Courses" as the Group. All studies whatsoever fall under one of these heads, Required Studies, Group, or Free Electives.

Tabular Statement:

*Minor Courses (One Year Each).**

1. and 2. English. *Two Courses.*	3. Philosophy.	4. Science, Physics, or Chemistry, or Biology.	5. Science or History.	†[6.] French, or German, or Greek.	‡[7.] Solid Geometry and Trigonometry.

Two Major Courses (Two Years Each).

Constituting any one of the following groups:

I.	II.	III.	IV.	V.
Any language with any language.	Any science with any science.	Mathematics with Greek or Latin.	Mathematics with Physics.	History with Political Science.

Free Electives.

Five hours weekly for a year and a half in any subject or subjects the student may elect.

The following combinations of studies are suggested as specimens of a few of the many combinations that may be made by students that are candidates for a degree, yet wish to specialise.

Classics. *As Required Studies*, English, Philosophy, Science (Physics, Chemistry, or Biology), Ancient History, [French or German]. *As a Group*, Greek and Latin. *As Free Electives*, advanced Greek and Latin.

Modern Languages (other than English). *As Required Studies*, English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History [Greek, French, or German]. *As a Group*, French and German, or Latin and French. *As Free Electives*, Spanish or Italian.

English. *As Required Studies*, English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History, [Greek, French, or German]. *As a*

* Except 7. (*One-half year.*)

† See page 20, under "Studies leading to the degree of Bachelor of Arts."

‡ See page 18 and page 44, under "Mathematics."

Group, French and English, or Greek and English. *As Free Electives*, German or Latin.

MATHEMATICS (with Latin). *As Required Studies*, English, Philosophy, Physics, Ancient History, [Greek, French, or German]. *As a Group*, Mathematics and Latin. *As Free Electives*, Advanced Mathematics.

MATHEMATICS (with Physics). *As Required Studies*, English, Philosophy, Chemistry, Biology, [Greek, French, or German]. *As a Group*, Mathematics and Physics. *As Free Electives*, Advanced Mathematics, or Physics.

HISTORY. *As Required Studies*, English, Philosophy, any Science, any language (Greek, Latin, English, German, French, Italian, or Spanish), [Greek, French, or German]. *As a Group*, History and Political Science. *As Free Electives*, History of German, or of French, Literature.

SCIENCE. *As Required Studies*, English, Philosophy, Physics, Botany, [Greek, French, or German]. *As a Group*, Chemistry and Biology. *As Free Electives*, Physics (second year); or advanced work in Biology or Chemistry.

The following combinations might be adopted by those that wish to pursue a major course in History or Science, yet do not wish to elect an historical or a scientific group.

I. *As Required Studies*, English, Philosophy, any Science, Ancient History, [Greek, French, or German]. *As a Group*, any Language with any Language, or Chemistry with Biology or Physics. *As Free Electives*, Modern History.

II. *As Required Studies*, English, Philosophy, Physics, Chemistry, [Greek, French, or German]. *As a Group*, any Language with any Language. *As Free Electives*, second year in Chemistry, or one year in Biology (animal or vegetable).

Since the time of graduation is determined only by the completion of the prescribed course, there is an entire freedom from over-pressure. All matriculated students may receive the degree of Bachelor of Arts when the prescribed course of study has been satisfactorily completed. On the other hand, as is shown by the recognition of special students, it is not required of any one to apply for a degree; and no degree will be conferred unless the course has been completed with credit.

Courses of Study.

There will be offered each year a minor, or five-hours' course in Philosophy, and major, or two-year courses, of five hours instruction weekly in the following subjects: History, Political Science, Greek, Latin, English, German, French, Italian, Spanish, Mathematics, Physics, Chemistry, and both branches of Biology.

Graduate courses are offered in Sanskrit and Indo-European Philology, Greek, Old French, Italian, Spanish, and other

Romance Languages, Gothic and Teutonic Philology, Norse, Old High German, Middle High German, Old Saxon, Anglo-Saxon, English Literature, Celtic, History, Mathematics, Chemistry, Political Science, and Biology.

Preliminary Medical Course. The attention of medical students, or those looking forward to the study of medicine, may be called to the facilities offered by the scientific laboratories. The value of a practical knowledge of biology and chemistry as preliminary or accessory to the professional study of medicine is generally recognised. Through the courtesy of the Woman's Medical College of Pennsylvania, and the Woman's Medical College of the New York Infirmary, allowance will be made in their professional courses for work carried on at Bryn Mawr in the scientific laboratories. Students of Bryn Mawr College that have completed major courses in chemistry and biology will be released from the first year's, or primary, examination in these colleges, and from laboratory practice in chemistry and biology.

Courses in Language and Literature. The courses in language and literature are meant, first of all, to be complete in themselves, and extensive enough to meet the needs of special students, and secondly, to facilitate the study of comparative philology or of comparative literature. Whenever it has been practicable, as in all the modern languages, one-half of the major course has been devoted to strictly linguistic studies, and the other half to the history of literature. In the major courses in Greek and Latin, the customary text-reading will be supplemented by lectures on the history of literature; the advanced course in Greek will ultimately be constructed on the model of a major course, one year being devoted to comparative philology and Sanskrit, and one to literary studies and the reading of difficult texts. Courses of parallel reading will be required of all students of language and literature, precisely as laboratory work is required of the students of chemistry or biology; these courses are intended to acquaint the students with the works of numerous authors, and it is especially hoped that students of Greek and Latin will, by this means, accustom themselves to read these languages constantly and without assistance.

The courses in ancient and modern languages will be of equal difficulty, and will be placed on a footing of equality. The traditional separation between ancient and modern languages has been disregarded, because, although strictly classical students may always be inclined to combine Greek and Latin,

there is, nevertheless, no modern literature of which the study may not fitly be preceded, or supplemented, by the study of Latin or Greek.

Lectures.

It is the object of the lectures to give a clear and succinct statement of facts and principles; to enumerate and criticise with frankness hand-books, authorities, and editions; to touch upon minor or far-lying points with such distinctness as may enable the student to investigate them intelligently at some future day; to bring the student's knowledge down to date, and to inform her, step by step, what things have been definitely ascertained and what things remain to be investigated. It is intended that the notes taken on these lectures, in addition to their immediate practical use, shall be of lasting value for reference, and be the starting-point, or at least the schedule, of studies to be undertaken subsequently. Every isolated student knows how difficult it is to be initiated into the modern scholastic movement otherwise than orally; and, therefore, in addition to the lectures, the several instructors will appoint certain hours in which the students may consult them freely.

The lectures will be accompanied by class-work, and by frequent examinations; they will be strictly special, not popular.

The Professors or Associates appointed are the recognised heads of their departments, and only such instructors have been chosen as are qualified to direct both graduate and undergraduate work.

Courses of Instruction.

The following undergraduate and graduate courses are offered in the year 1889–90:

Greek.

The instruction in Greek is under the charge of Dr. Edward W. Hopkins, Associate Professor of Greek, Sanskrit and Comparative Philology; Dr. Paul Shorey, Associate Professor of Greek and Latin; and Dr. Herbert Weir Smyth, Associate in Greek and Latin. The instruction offered in Greek and Sanskrit covers twenty-four hours of lectures and recitations weekly, and includes five hours a week of elementary work, ten hours a week of undergraduate major and minor work, four hours weekly of post major work, open only to graduates and to under-

graduates that have completed the major course in Greek; and five hours weekly of graduate work.

The courses are as follows:

Beginners' Course. A course of five hours weekly throughout the year will be provided for those students who may wish to study Greek, but whose examination for matriculation did not include it. Students that desire to continue the study of Greek are expected to read more Greek than is required of the other students, in order that in the ensuing year they may pass the entrance examination and enter upon the first year of the major course. Students that wish may substitute for this course the minor, or first year's course in Latin. Either the Beginner's Course in Greek or the minor course in Latin, is required of candidates for the degree of Bachelor of Arts, that have not passed the matriculation examination in Greek.

Major Course.

FIRST YEAR.
(*Minor Course.*)

1*st Semester.*

Plato, *Apology*, Dr. Hopkins.	*Twice weekly.*
Odyssey, *Selections*, Dr. Smyth.	*Twice weekly.*
(May be taken as a Free Elective.)	
Greek Prose Composition, Dr. Hopkins.	*Once weekly.*
Private Reading, Lysias, *Against Eratosthenes.*	

2*nd Semester.*

Iliad, *Selections*, Dr. Smyth.	*Twice weekly.*
Euripides, *Alcestis*, Dr. Hopkins.	*Twice weekly.*
Greek Prose Composition, Dr. Hopkins.	*Once weekly.*
Private Reading, Sophocles, *Ajax.*	

SECOND YEAR.

1*st Semester.*

Lectures on the History of Greek Poetry, Dr. Hopkins.	*Twice weekly.*
Herodotus, *Selections*; Æschylus, *Persæ*, Dr. Smyth.	*Twice weekly.*
Lyric Poets, *Selections*, Dr. Hopkins.	*Once weekly.*
Private Reading, Æschylus, *Prometheus.*	

2*nd Semester.*

Lectures on the History of Greek Prose, Dr. Shorey.	*Twice weekly.*
Thucydides, *Selections*, Dr. Hopkins.	*Twice weekly.*
Lectures on Greek Grammar, Dr. Hopkins.	*Once weekly.*
Private reading, Isocrates, *Panegyricus.*	

In 1890-91 the courses offered will be varied as follows: In the Minor, or first year, Lysias, *Selections*, will be read by Dr. Hopkins twice weekly in the first semester instead of Plato, *Apology*; and Plato, *Apology*, will be read by Dr. Hopkins in the second semester instead of Euripides, *Alcestis*. Dr. Smyth will read Herodotus, Book VIII., 1-90, instead of Iliad, *Selections*. The private reading for the year will be Xenophon, *Memorabilia*, *Selections*, and Andocides, *Mysteries*.

In the Major Course Dr. Hopkins will read in the second semester Demosthenes, *De Corona*, instead of Thucydides, and Æschylus, *Prometheus*, instead of Greek Grammar;

and Dr. Smyth will read in the first semester Sophocles, *Antigone*, instead of Herodotus and the *Persæ*.

The private reading for the year will be Euripides, *Medea*, and Plato, *Phaedo*.

The usual second year's work of the Major Course may be divided so as to cover a period of two years; but the lectures on literature must be taken, and the reading course of two hours must, if elected, be taken for both semesters.

The first year's work may not be divided.

Examinations on the courses of private readings will be held at the end of each semester.

Group: Greek with any language, or with Mathematics.

Post Major.

Post Major Courses.

Post Major courses are offered to those that have completed the Major Course; they may also be taken by graduate students.

1*st Semester.*

Rapid reading of Plato, *Republic*, Dr. Shorey.	*Twice weekly.*
(This course will probably not be given in 1890–91.)	
Pindar *Selections*, Dr. Shorey.	*Once weekly.*
(Not given in 1889–90.)	
Theocritus, *Selections*, Dr. Hopkins.	*Once weekly.*
Æschylus, *Agamemnon*, Dr. Hopkins.	*Once weekly.*
Attic Orators, Dr. Smyth.	*Twice weekly.*
(Demosthenes, *Olynthiacs and Philippics, will be substituted in the year* 1890–91.)	
Greek Prose Composition, Dr. Smyth.	*Once fortnightly.*
Lectures on Greek and Latin Grammar, Dr. Hopkins.	*Once weekly.*

2*nd Semester.*

Rapid reading of Plato, *Republic*, Dr. Shorey.	*Twice weekly.*
(This course will probably not be given in 1890–91.)	
Pindar *Selections*, Dr. Shorey.	*Once weekly.*
(Not given in 1889-90.)	
Rig Veda, *Selections*, Dr. Hopkins.	*Once weekly.*
Sophocles, *Œdipus Rex*, Dr. Hopkins.	*Once weekly.*
Greek Sculpture, Dr. Smyth.	*Twice weekly.*
(Period of Praxiteles, Lysippus and their successors; Lessing's Laocoon.)	
(*For Greek Sculpture, the Iliad will be substituted in* 1890–91.)	
Greek Prose Composition, Dr. Smyth.	*Once fortnightly.*
(This course offered for 1890–91.)	
Lectures on Greek and Latin Grammar, Dr. Hopkins,	*Once weekly.*

Graduate Courses.

Advanced courses in Greek are provided for graduate students. These courses will be varied from year to year, according to the needs of the students and at the discretion of the instructors, so that graduate students may attend them for more than two semesters.

The Post Major courses are open to graduate students.

A large part of the work expected of graduates will consist of reading, under

direction of the department, and reports of works thus read will from time to time be required of the student.

GRADUATE COURSE.

1*st Semester.*

Lectures on Comparative Philology, Dr. Hopkins. *Once weekly.*

Sanskrit Grammar, with selections from Lanman's Reader, *or* Drama, *Selections*, } Dr. Hopkins. *Once weekly.*

Æschines aad Demosthenes, *On the Crown*, Dr. Hopkins. *Once weekly.*

(In 1890-91 Sophocles, *Œdipus Rex*, will be substituted.)

Study of Greek writers on style, Dionysius of Halicarnassus (*de compositione verborum*); Longinus (*Treatise on the Sublime*), Dr Smyth. *Twice weekly.*

(In 1890-91 Greek Melic Poets, once weekly, and Greek Dialects, once weekly, will be substituted.)

2*nd Semester.*

Philological Seminary, Dr. Hopkins. *Once weekly.*

Selections from the Rig Veda, Dr. Hopkins. *Once weekly.*

Æschylus, *Eumenides*, Dr. Hopkins. *Once weekly.*

Homer (Seminary), Dr. Smyth. *Twice weekly.*

(In 1890-91, Greek Melic Poets, once weekly, and Greek Dialects, once weekly, will be substituted for this course.)

Latin.

The department in Latin is under the charge of Dr. Paul Shorey, Associate Professor of Greek and Latin, and Dr. Gonzalez Lodge, Associate in Latin. The instruction offered covers eighteen hours of lectures and recitations weekly, and includes ten hours a week of undergraduate (major and minor) lectures, five hours weekly of post-major work, open only to graduates and to undergraduates that have completed the major course in Latin; and three hours weekly of graduate work.

Major Course.

FIRST YEAR.

(*Minor Course.*)

1*st Semester.*

Horace, *Selections*, Dr. Shorey. *Twice weekly.*

(May be taken as a Free Elective.)

Sallust, *Catilina*, Livy, *book XXI.*, Dr. Lodge. *Twice weekly.*

Latin Prose Composition, Dr. Lodge. *Once weekly.*

Private Reading, Virgil, *Æneid VII., VIII.*

2*nd Semester.*

Horace (continued); Virgil, *Selections*, with lectures on the poetry of the Augustan age, Dr. Shorey, *Twice weekly.*

(May be taken as a Free Elective.)

Livy, *book XXI.* (continued); *book XXII.*, Dr. Lodge. *Twice weekly.*
Latin Prose Composition, Dr. Lodge. *Once weekly.*
Private Reading, Virgil, *Æneid IX., X.*

SECOND YEAR.

1*st Semester.*

Lectures on Latin Literature, Dr. Shorey. *Once weekly.*

(Unless a sufficient number of students elect this course, an additional hour of reading in Juvenal, Catullus and Martial may be substituted for it next year.)

Juvenal, *Selections*, Dr. Shorey. *Once weekly.*
Tacitus, *Germania*, *Agricola*, Annals, *book I.*, Dr. Lodge, *Twice weekly.*
Latin Prose Composition, Dr. Lodge. *Once weekly.*
Private Reading, Pliny, *Selected Letters.*

2*nd Semester.*

Lectures on Latin Literature, Dr. Shorey. *Once weekly.*
Catullus and Martial, Dr. Shorey. *Once weekly.*
Tibullus, Propertius, Dr. Lodge. *Twice weekly.*
Latin Prose Composition, Dr. Lodge. *Once weekly.*
Private Reading, Cicero, *Selected Letters.*

Group: Latin with any language, or with Mathematics.

Post Major Courses.

Five hours weekly of *Post-Major* Latin is offered students that may have completed the Major Course in Latin. The course in Greek Archæology also is open to them as a free elective.

POST-MAJOR.

Study of Cicero, Lucretius, *Selections*, Dr. Shorey. *Twice weekly.*

Lectures, reports and rapid reading, two hours weekly throughout the year. Additional work may be taken in connection with this course after consultation with the instructor.

Terence, Dr. Lodge. *Twice weekly.*
Latin Prose Composition, Dr. Lodge. *Once weekly.*

Graduate Courses.

GRADUATE COURSE.

Plautus (Seminary), Dr. Lodge. *Twice weekly.*
Roman Inscriptions, Dr. Lodge. *Once weekly.*

English.

The instruction in English is under the direction of Dr. M. Carey Thomas, Professor of English, Dr. Mary M. Gwinn, Associate in English, and Dr. Charles F. McClumpha, Associate in Anglo-Saxon. It includes two years of lectures on literature and language required of every candidate for a degree, two years of advanced English, which presupposes as much infor-

mation as is contained in the required course, and may be elected in combination with the major course in any other language; and graduate courses in English literature, Anglo-Saxon and Early English.

Required Course. The required course consists of lectures on literature and language, in which the history of English literature will be regarded as far as possible from the point of view of European literature generally, essay work, and courses of private reading which are meant to familiarise the student with English authors.

Six essays on subjects connected with the history of English literature are required of every student. There will be examination on the private reading.

FIRST YEAR.

1*st Semester.*

Lectures on the English language, Dr. Thomas. *Four times weekly till Xmas.*

Lectures on the history of Anglo-Saxon literature; with an introduction into the study of early Teutonic literature and mythology, Dr. Thomas. *Three times weekly during the remainder of the semester.*

Reading of selected works of Chaucer, accompanied with introductory lectures upon Chaucerian Grammar and Pronunciation, Dr. McClumpha. *Once weekly after Xmas.*

Essay-work, Dr. Gwinn. *Once weekly.*

2*nd Semester.*

Lectures on the history of English literature to the time of Chaucer, inclusive, with an introduction into the study of French mediæval literature, Dr. Thomas. *Three times weekly.*

Reading of Chaucer, continued, Dr. McClumpha. *Once weekly.*

Essay-work, Dr. Gwinn. *Once weekly.*

SECOND YEAR.

1*st Semester.*

Lectures on the history of English literature from Chaucer to the Restoration, inclusive; with a short account of Italian literature, Dr. Thomas. *Four times weekly.*

Essay-work, Dr. Gwinn. *Once weekly.*

2*nd Semester.*

Lectures on the history of English literature from the Restoration to the present time: with a short account of the literature of France in the 17th and 18th centuries, Dr. Thomas. *Four times weekly.*

Essay work, Dr. Gwinn. *Once weekly.*

Parallel courses of private reading are arranged in connection with the lectures, and the writing of essays will form part of each year's work.

The courses of the first and second year will be given alternately, the first in 1889-90, and the second in 1890-91, and may be attended in reverse order.

Major Course. The major course in English differs slightly from the other major courses of the college, in that it has been preceded by two years' study, and is intended for graduate students or for those undergraduate students who are exceptionally anxious to specialise in English. Either year may be taken separately as a free elective by students that have completed the required course.

FIRST YEAR.

Language—Minor Course.

1st Semester.

Anglo-Saxon Grammar and reading of Anglo-Saxon texts, Dr. McClumpha. *Five times weekly.*

The course in Anglo-Saxon begins with Sievers' Anglo-Saxon Grammar and the prose contained in Sweet's Anglo-Saxon Reader. The poem of Beowulf is read with the class, and portions of Beowulf literature (episodes, armor, customs, etc.) are assigned for special study. The course closes with Zupitza's Reader, which forms the transition to the Early English of the next semester.

2nd Semester.

Early English Grammar and the reading of Early English Texts, Dr. McClumpha. *Five times weekly.*

The course in Early English will include the reading of Morris and Skeat, *Specimens of Early English, Parts 1st and 2nd*, and selections from Piers Plowman and Wyclif. Great attention will be paid to the pronunciation of Early English, and to the change from Early English into Modern English.

SECOND YEAR.

Literature—Minor Course.

Special study of particular authors or periods, Dr. Thomas and Dr. Gwinn. *Five times weekly.*

The year is essentially a year of seminary work and essay-writing.

In 1890–91 the authors chosen will be, Matthew Arnold (for prose style), and the poets of the early part of the nineteenth century. The private reading and essay-writing will be on subjects connected with English literature, but need not be the same for all students. Either year of the English Major may be taken as a Free Elective by students that have completed the two years of required English.

Group : English with any language.

GRADUATE COURSE.

Graduate Courses.

There will be offered each year two distinct graduate courses in English— one in literature and one in language; These courses will be varied from year to year, according to the needs of the students.

Literature.

The graduate instruction in English literature will include the direction of private reading and the assignment of topics for investigation.

The Elizabethan and Jacobean Drama, Dr. Thomas and Dr. Gwinn. *Five hours weekly.*

The essay-work that accompanies the course on the English drama is the equivalent of three hours weekly.

Language.

Beowulf, Dr. McClumpha. *Twice weekly.*

The reading of Beowulf is supplemented by lectures upon its geography, mythology and ethnography. Parallelisms between Beowulf and the Cædmonian and Cynewulfian poems are also investigated by the students.

Cynewulf, *Andreas*, Dr. McClumpha. *Once weekly.*

Special study of Anglo-Saxon Grammar, Dr. McClumpha. *Twice weekly.*

Lectures on Old English Dialects, accompanied by a comparison with West Saxon of the Northumbrian and Kentish documents contained in Sweet's *Archaic and Dialectal Reader*, Dr. McClumpha. *Twice weekly.*

Lectures upon Transition English, with special reference to Layamon and Orm, Dr. McClumpha. *Twice weekly.*

Chaucer, Dr. McClumpha. *Twice weekly.*

Reading of Chaucer and lectures on Early English Dialects, illustrated by selections from authors of Chaucer's time.

Teutonic Mythology, Dr. McClumpha. *Once weekly.*

German.

The instruction in German is under the direction of Dr. Hermann Collitz, Associate Professor of German Literature and Language, assisted by Miss Rose Chamberlin.

Beginners' Class. A class for beginners in German, five hours weekly throughout the year, will be provided, in order that those students whose matriculation examination did not include German may with less difficulty obtain the reading knowledge of it that they must possess before receiving a degree. By great diligence such students may, it is hoped, acquire sufficient knowledge to be admitted, should they desire it, into the Major Course in German.

Conversation Class. A class for German conversation will meet, in the afternoon or evening, three times weekly throughout the year. It may be attended by any student that has passed the matriculation examination in German.

Major Course. The Major Course presupposes as much knowledge as is implied by the matriculation examination in this subject. Either the first or second year of the Major Course may be taken as a Minor Course.

First Year.

(Minor Course.)

History of German Literature from the earliest times to the time of Klopstock, exclusive, Dr. Collitz. *Twice weekly.*

These lectures, which are delivered in German, begin with the account of German civilisation found in classical authors, and include Ulfilas, the time of Charlemagne, the fragments of heathen poetry, the Hêliand, Otfried, the Nibelungenlied, and the Heldenbuch, the time of Wolfram, Gottfried, Hartmann, the Minnesingers and Meistersingers, Sebastian Brandt, Hans Sachs, etc.

Max Müller, *The German Classics* (1*st Part*), Dr. Collitz. *Once weekly.*

Goethe, *Faust* (1*st Part*), Dr. Collitz. *Once weekly.*

German Prose Composition, Miss Chamberlin. *Once weekly.*

German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which an examination will be held at the end of the year, is as follows: Lessing, *Emilia Galotti;* Goethe, *Götz v. Berlichingen, Iphigenie;* Schiller, *Don Carlos, Braut v. Messina. Götz v. Berlichingen* is the private reading for those that elect the course in *Faust* only; *Iphigenia* and *Don Carlos* are to be read in connection with the lecture on literature.

Second Year.

The History of German Literature from Klopstock inclusive, to the present time, Dr. Collitz. *Twice weekly.*

These lectures will be delivered in German and will treat the great classical authors,

as well as the most modern poets and novelists; they are open as a free elective to all students that have passed the matriculation examination in German.

Max Müller, *The German Classics* (*2nd Part*), Dr. Collitz. *Once weekly.*
Goethe, *Faust* (*2nd Part*), Schiller, Lyrics, *selections*, Dr. Collitz. *Once weekly.*
German Prose Composition, Miss Chamberlin, *Once weekly.*
German conversation class, Miss Chamberlin, *Once weekly.*

The private reading on which an examination will be held at the end of each semester, is as follows: Lessing, *Miss Sara Sampson;* Goethe, *Clavigo, Tasso;* Schiller, *Wallenstein;* Scheffel, *Ekkehard;* Chamisso, *Peter Schlemihl. Wallenstein* is to be read in connection with *Faust, Tasso* and *Ekkehard,* with the lectures on literature.

Group : German with any language.

GRADUATE COURSE.

Graduate Courses.

The following graduate courses are offered:

Gothic, Dr. Collitz. *Once weekly.*
Middle High German Grammar and reading of Middle High German Texts, Dr. Collitz. *Twice weekly.*
Norse, Dr. Collitz. *Once weekly.*

Celtic.

A Graduate Course in Celtic will be offered by Dr. Collitz, Associate Professor of German, in the year 1890–1.

French.

The instruction in French is under the direction of Dr. J. Jacques Stürzinger, Associate Professor of Romance Languages, assisted by Miss Rose Chamberlin and Mlle. Bonâme.

Beginners Class.

An introductory course, resembling the introductory course in German, will be provided for the convenience of those students who, in their matriculation examination, omitted French.

Conversation Class.

A class for French conversation will meet in the afternoon or evening, three times a week. It may be attended by any student who has passed the matriculation examination in French.

Major Course.

The Major Course in French presupposes as much knowledge as is required for the matriculation examination in that subject. Either the first or second year can be taken as a Minor Course, the two years together forming a Major.

The lectures are delivered in French.

FIRST YEAR.

(*Minor Course.*)

Lectures on the History of French Literature of the 14th, 15th, 16th and 17th Centuries, Dr. Stürzinger. *Three times weekly.*
French Composition, Miss Chamberlin. *Once weekly.*
French Conversation, and Talks about Literature, Mlle. Bonâme. *Once weekly.*

The lectures being delivered in French, the notes taken by the students will be submitted to the instructor, and one hour weekly will be devoted to grammatical criticism or needful instruction in style.

The private reading on which an examination will be held is as follows: four plays of Corneille; nine of Molière; six of Racine, and parts of Malherbe, Regnier, Pascal, Boileau, La Fontaine, La Bruyère, Fénelon.

SECOND YEAR.

Lectures on the History of French Literature of the 18th and 19th Centuries, Dr. Stürzinger. *Three times weekly.*

French Composition, Miss Chamberlin. *Once weekly.*

French Conversation and Talks about Literature, Mlle Bonâme. *Once weekly.*

The private reading on which an examination is held is as follows: Two plays of Voltaire and the Siècle of Louis XIV., selections; *Le Mœriage de Figaro;* and *Le Neveu de Rameau.* Chateaubriand *Atala, Génie du christianisme* (selections); Mme de Staël, *Corinne* (selections), *De l'Allemagne* (2nd part, books 1-3); Béranger, *Selected Chansons;* Lamartine, Selections from *Meditations, Harmonies* and *Jocelyn*; Alfred de Vigny, *Poëmes antiques et modernes* (*Eloa, LaNeige, Le Cor*), *Cinq Mars*, Selections; Victor Hugo, Selections from *Orientales, Contemplations* and *Légende des Siécles: Préface de Cromwell. Hernani* and parts of *Les Misérables:* Alfred de Musset, *Selected Poems and Dramas;* George Sand, *La Marquise, La Mare au Diable, Le Marquis de Villemer:* Merimée, *Colomba;* Balzac, *Le Père Goriot, Eugénie Grandet.*

It will be required of the student to prepare French essays or translations, and one hour weekly will be devoted to grammatical criticisms of these essays, or to needful instruction in grammar and style.

Group: French with any language.

GRADUATE COURSE.

Graduate Courses. Special courses in Old French, and in Romance Philology and Romance Dialects, will be given for graduate students. The work will vary from year to year.

Italian.

The instruction in Italian is under the direction of Dr. J. Jacques Stürzinger, Associate Professor of Romance Languages.

FIRST YEAR.

(*Language—Minor Course.*)

Major Course. Historical Grammar of the Italian Language, terminating with reading of Italian Texts, Dr. Stürzinger. *Five times weekly.*

This course comprises a philological introduction into the study of Italian, translation of English into Italian, and class exercises in pronunciation and reading. Private reading will be assigned towards the close of the year.

SECOND YEAR.

(*Literature.*)

History of Italian Literature, and special study of Dante, Dr. Stürzinger. *Four times weekly.*

Composition and Reading, Dr. Stürzinger. *Once weekly.*

The Private Reading in this course will include selections from Petrarch, Boccaccio, Manzoni, and Leopardi.

Examinations on the courses of private reading will be held from time to time.

The courses of the first and of the second year will not be given simultaneously.

Group. Italian with any language.

Spanish.

The instruction in Spanish is under the direction of Dr. J. Jacques Stürzinger, Associate Professor of Romance Languages.

FIRST YEAR.

(*Language—Minor Course.*)

Historical Grammar of the Spanish Language, terminating with reading of Spanish Texts, Dr. Stürzinger. *Five times weekly.* ***Major Course.***

SECOND YEAR.

(*Literature.*)

History of Spanish Literature, with reading of selections from the most important texts, Dr. Stürzinger. *Four times weekly.*

Composition and Reading, Dr. Stürzinger. *Once weekly.*

The Private Reading in this course will include selections from Cervantes, Calderon, Moratin, and Fernan Caballero.

The courses of the first and of the second year will not be given simultaneously.

Group. Spanish with any language.

Philosophy.

The course in Philosophy, five hours weekly throughout one year, is required of all candidates for a degree, and is educational rather than technical in its aims. An effort will be made to assist the student in co-ordinating the knowledge gained in other courses of study, and in acquiring a sufficient acquaintance with the method and vocabulary of speculative thought to read philosophic books intelligently.

The instruction in Logic, Psychology and history of Philosophy is under the charge of Dr. Paul Shorey. It is a consecutive course of instruction, and extends over three hours a week through the year. President Rhoads lectures once weekly on Christian Ethics, and J. Rendel Harris, non-resident lecturer, lectures once weekly on the Bible and Biblical Study.

Although as yet only a minor course in Philosophy has been organised, Dr. Shorey will direct the Philosophical reading of graduate students who may wish to take philosophy as one of the secondary subjects required for the degree of Doctor of Philosophy.

Required Course. Lectures on Logic, Psychology and the History of Philosophy, Dr. Shorey. *Three times weekly.*

The elementary instruction in Logic and Psychology will be based upon the text-books of Jevons and Sully, which will be supplemented by lectures to bring out the historic and literary associations of the subject-matter. In the history of Philosophy the chief stress will be laid upon Bacon, Descartes and Locke, but the lectures will present a brief summary of the general history of speculative thought in Western Europe, with copious definite references for students who care to investigate special points. Comparatively little attention will be given to the post-Kantian metaphysics of Germany.

Lectures on Christian Ethics, President Rhoads. *Once weekly.*

In the first part of the course the lectures will treat of the theory of ethics, including an examination of the elements of man's personality as a moral being. The works of Porter, Calderwood, Janet, Martineau and others are referred to, and portions assigned to be read by the class. The applications of moral principles to duty are next considered, especially in the light of Christian ethics. Wayland, Dymond, Dörner and other writers that have treated particularly of duties are used as books of reference. In the latter part of the course a brief review is given of the chief ethical systems, including some of the most recent.

Lectures on Biblical History, Mr. J. Rendel Harris. *Once weekly.*

History.

The instruction in history is under the direction of Dr. C. M. Andrews, Associate in History.

The object of the courses in history is three-fold. Primarily, history is taught for its own sake as a record of the development of humanity, secondarily as a necessary accompaniment of the study of political institutions, and finally as a framework for other forms of research—linguistic, religious or archæological. The course is planned to develop in the students a readier historical imagination, a critical sense and a consciousness of historical growth, rather than to give them a mere outline of general history. The instruction consists entirely of lectures; references are given for private reading; attention is paid to physical geography, and map-work is required; a part of every hour is devoted to questioning and discussion.

First Year.

(*Minor Course.*)

1*st Semester.*

Major Course. Ancient History to the Rise of Macedon, Dr. Andrews. *Five times weekly.*

The institutions and civilisation of Egypt, Chaldea, Palestine, Babylon, Assyria, Phœnicia and Persia, are briefly outlined, in order to make clear the relations of early Greece to the East, what she owed to Oriental influence, and the meaning and importance of Grecian politics, art, letters and philosophy, as contrasted with Oriental civilisation.

2*nd Semester.*

Ancient History from the beginning of Rome to the later days of the Empire, Dr. Andrews. *Five times weekly.*

This course is a continuation of the last. In general, the aim is to trace the expansion of the early Roman community, and in the connection, Livy's narrative is briefly examined; the growth of custom into law and its later modification; the equalisation of the Orders; the struggle with Carthage; the agrarian troubles; the overthrow of the Republic and the rise and decline of the Empire. In their proper place will be taken up the growth and extension of the Macedonian Empire, its relations with Rome, and the important character of the Achæan and Ætolian leagues in the final struggle of Greece with Rome.

SECOND YEAR.

1st Semester.

The History of Mediæval Europe to the Period of the Renaissance. Dr. Andrews. *Five times weekly.*

This course may be taken independently as the required year in Modern History; it may also be regarded as a continuation of the work of the first year. The design is to trace the fall of Rome and the rise of new Nationalities; the growth of Frankish power; the empire of Charles the Great; the gradual nationalisation of France and Germany; the growth and influence of the Church; the Feudal System, and the rise of French monarchy; the rapid extension of Mohammedanism and its points of contact with Europe; the struggle between the Papacy and the Holy Roman Empire; the scope and results of the crusading movement.

2nd Semester.

From the Period of the Renaissance to the Eighteenth Century. Dr. Andrews. *Five times weekly.*

The lectures trace the growth of the Humanities and the phases of religious change, the broadening of knowledge in letters, geography and science; the extension of commerce and the struggle for privileges and constitutional liberty; the weakening of the Papacy and the failure of the Holy Roman Empire; the spirit of Reformation and the counter measures; the war in the Netherlands; the Thirty Years' War; the territorial expansion of France and the rise of French absolutism. The course is planned as a preparation for the study of political, social and economic movements of the nineteenth century.

Group: History and Political Science.

GRADUATE COURSES.

Graduate Courses.

Two courses are offered to graduate students in History in addition to direction in private reading and original research.

I. Historical Definition, Method and Criticism, Dr. Andrews. *One hour weekly.*

The character of this course is that of an informal lecture and discussion. The treatment is, therefore, rather suggestive than exhaustive. The topics discussed are the definitions, divisions and limits of History; the different classes of historical writing; the relation of History to other sciences; the sources of History, direct and indirect and the methods employed in treating such sources; historical criticism, including the different kinds of evidence, and their treatment, argument, critical analysis, the inductive process, aids to evidence, geography, chronology, etc.

II. History of the Roman Law, Dr. Andrews. *One hour weekly.*

Law is studied from a historical rather than from a purely legal point of view. The object is rather to observe the steps by which custom and rules of conduct took on legal form; to examine the character of the early family law and its extension beyond the family; the nature of the early constitution of Rome; the Servian reforms; the Twelve Tables; the ancient forms of procedure; the struggle between the Patricians and Plebeians, and their gradual equalization; the effects of the struggle upon the law; the

Prætorian legislation, the Jus gentium, Jus naturale, the influence of the Stoic philosophy, and the Christian religion; the period of the great lawyers and the attempts at codification; final codification by Justinian and the later influence through the barbarian tribes, the Church and the universities. A knowledge of Latin is indispensable for this work.

An additional course in English or American constitutional history is proposed by Dr. Andrews for the next year; this may be taken either as a post-major by the undergraduate students in History or as a regular graduate study by those that have already received their first degree.

Political Science.

The instruction in Political Science is under the direction of Mr. Franklin H. Giddings, Associate in Political Science.

The objects of the courses in political science are, first, to cultivate a scientific habit of thought in regard to all social phenomena whatsoever; and secondly, to lay a basis of sound knowledge for an intelligent interest in public affairs, and for original work or professional studies in economics, law, administration or philosophical sociology. To this end instruction is offered in Political Economy and Economic History; in the Evolution of Political Institutions; in Public Law and Administration, and in Modern Theories of Sociology. Minor, major and post-major and graduate courses are given each year. The major and post-major courses are combined, the major lectures of any year being different in subject and treatment from those of the year before, so permitting students that desire it to take post-major work by following the major course for two successive years. The lectures are constantly accompanied by class work, and by seminary exercises. Private reading is assigned, with the aim of developing independent thinking and research.

Major Course.

FIRST YEAR.

(*Minor Course.*)

1st Semester.

Political Economy, Mr. Giddings. *Three times weekly.*

This is a fundamental course, including a drill in the principles of the classical English Political Economy as the indispensable basis of further study.

Political Institutions, Mr. Giddings. *Twice weekly.*

The aim of this course is to show how political institutions of every description, the world over, have been evolved from a few primary forms. Their development is traced from simple beginnings in tribal society through various transformations, monarchical, oligarchical and democratic, to their complicated forms in modern nations.

2nd Semester.

Economic History, Mr. Giddings. *Three times weekly.*

This course begins with the manorial community of the middle ages, follows the

growth of industry and commerce, analyses the industrial revolution, 1760–1846, and reviews the economic developments of recent times.

Public Law, Mr. Giddings. *Twice weekly.*

The theory of legal rights and duties is presented, important definitions are given, and the fundamental principles of Continental, English and American constitutional law are studied.

SECOND YEAR, 1889–90.

(The lectures of this course are given in alternate years.)

1st Semester.

History of Political Economy. *Three times weekly.*

Political Theories, Mr. Giddings. *Twice weekly.*

The leading political theories from Aristotle to Hegel, Mill and Spencer are critically reviewed.

2nd Semester.

Advanced Political Economy, Mr. Giddings. *Three times weekly.*

The special subjects taken up in this course are, the Labor Question, the Land Question, and Socialism.

Charities and Correction, Mr. Giddings. *Twice weekly.*

American, English and Continental methods are compared. Individual work is assigned.

SECOND YEAR, 1890–91.

(The lectures of this course are given in alternate years.)

1st Semester.

Advanced Political Economy, Mr. Giddings. *Three times weekly.*

The special subjects are, Money, Bimetallism, and the Tariff History of the United States.

Administration, Mr. Giddings. *Twice weekly.*

This course defines the nature and province of administration, and deals especially with the civil service and with local and municipal governments in the United States and foreign countries.

2nd Semester.

Advanced Political Economy, Mr. Giddings. *Three times weekly.*

The subjects are, Public Debts, Taxation, and Municipal Economy.

Parliamentary and Congressional Government, Mr. Giddings. *Twice weekly.*

Group: Political Science and History.

GRADUATE COURSES.

Graduate Courses.

Two Graduate Courses are given each year.

Political Economy, Mr. Giddings. *One hour weekly through the year.*

This is a course of advanced theory and method, designed specially for Fellows and graduate students who look forward to original work or teaching. Particular attention is given to the theoretical work of the Austrian economists. A reading knowledge of French and German is indispensable for this course.

Modern Theories of Sociology, Mr. Giddings. *One hour weekly through the year.*

The lectures on Sociology are intended to accomplish three things, namely; (1) to provoke thought on the question whether a philosophical science of society as an organic

whole is possible; (2) to acquaint the student with what has been done already toward the construction of such a science; (3) to apply sociological conceptions and methods to a few chosen sociological problems. Fellows and graduate students expecting to do advanced work in this course must have, besides their equipment in history and political economy, at least a general knowledge of the history of philosophy and some acquaintance with modern biology and empirical psychology. The articles on biology and psychology in the Encyclopædia Britannica, Galton's "Natural Inheritance," and Richmond M. Smith's "Statistics and Economics" are suggested for preliminary reading. A reading knowledge of French and German is requisite.

Mathematics.

The instruction in Mathematics is under the direction of Dr. Charlotte A. Scott, Associate Professor of Mathematics, and Mr. James Harkness, Associate in Mathematics.

The Major Course is a course in pure mathematics, and in the two years the students will be able to gain a fair knowledge of the principal pure mathematical subjects. It is not proposed in this course to give much study to the applications of mathematics, but some opportunity for this will be afforded by the course of lectures on dynamics, and by an alternative course in the final semester. The subjects in this alternative course will be arranged by the instructor with a view to the needs of students intending to take the graduate course. The points of contact of mathematics with other branches of mental and physical science will be indicated as far as possible throughout the course, special attention being paid to the nature of mathematical reasoning, and to the true relation and mutual dependence of mathematics and physics, in order that students may obtain just ideas of the scope and province of mathematics. The course of lectures on the history of mathematics in the second year is intended to give an outline of the development of the subject from its beginning to 1700 A.D.

Preparatory Course. A Preparatory Course of five hours weekly throughout one semester is designed for students entering the college without a sufficient knowledge of those mathematical subjects that are optional in the entrance examination; the lectures will be adapted each year to the requirements of students taking the course; they will, generally speaking, include solid geometry and trigonometry.

Major Course.

FIRST YEAR.

(*Minor Course.*)

1*st Semester.*

Algebra, advanced Trigonometry, and Theory of Equations, (*a*) Mr. Harkness. *Twice weekly.*

Analytical and Modern Geometry of Two Dimensions, (*b*) Dr. Scott. *Twice weekly.*

Geometrical Conics and Newton, (*c*) Dr. Scott. *Once weekly.*

2nd Semester.

Elementary Differential and Integral Calculus, (*d*) Mr. Harkness. *Twice weekly.*

Analytical and Modern Geometry of Two Dimensions, (*e*) Dr. Scott. *Twice weekly.*

Newton and Elementary Dynamics, (*f*) Mr. Harkness. *Once weekly.*

SECOND YEAR.

1st Semester.

Differential and Integral Calculus, (*g*) Mr. Harkness. *Twice weekly.*

Analytical and Modern Geometry of Two Dimensions, (*h*) Dr. Scott. *Three times weekly.*

2nd Semester.

Differential Equations and Elements of Finite Differences, (*i*) Mr. Harkness. *Twice weekly.*

Analytical Geometry of Three Dimensions, Dr. Scott; *or*, Applied Mathematics, (*j*) Mr. Harkness. *Twice weekly.*

History of Mathematics, (*k*) Dr. Scott. *Once weekly.*

Seminary (throughout the course). *Twice weekly.*

The work for either year may be divided so as to cover a period of two consecutive years. The division must be made as follows:

The Free Elective course in Mathematics (one year and a half) consists of the first year's work (divided, if desired), with (*g*), and (*h*) or (*i*) and (*k*) of the second year's work. With the approval of the instructor (*k*) may be substituted for an equivalent part of (*h*).

First Year's Work, ... { *1st Half* { *1st Semester* (*a*). / *2d Semester* (*b*). ; *2d Half* { *1st Semester* (*c*) *and* (*e*). / *2d Semester* (*d*) *and* (*f*).

Second Year's Work, ... { *1st Half* { *1st Semester* (*g*). / *2d Semester* (*i*) [*and* (*k*)]. ; *2d Half* { *1st Semester* (*h*). / *2d Semester* (*j*) [*and* (*k*)].

Group: Mathematics with Physics, or Mathematics with Greek or Latin.

GRADUATE COURSES.

Graduate Courses.

The lectures in the Graduate Course will be varied from year to year; so that, while each year will be complete in itself, a graduate may, if she wish, attend for more than two consecutive semesters. This course will be open in part as a Free Elective to students that have completed the Major Course in Mathematics, with special permission from the instructor.

Modern Algebra, Dr. Scott. *First semester, twice; second semester, three times weekly.*

Theory of Functions, Mr. Harkness. *First semester, three times weekly.*

Theory of Functions, Mr. Harkness. *Second semester, twice weekly.*

Courses of lectures in these subjects, in Modern Geometry, Theory of Numbers, History of Mathematics, etc., and seminary work will be arranged according to the requirements of graduate students taking the course.

Physics.

The instruction in Physics is under the direction of Dr. Charles A. Perkins, Associate in Physics.

The course extends through two years, but in the first year an elementary treatment of all the subjects is given, making a course complete in itself. Lodge's Mechanics and Thompson's Lessons in Electricity and Magnetism are used in connection with the work of the first semester. In the second semester, instruction is wholly by lectures.

For the first year's course a knowledge of the elements of trigonometry is required. No knowledge of physics is presupposed.

In the second year use is made of differential and integral calculus. The lecture courses (*b*), (*c*) and (*d*) of the mathematical minor course will cover the required ground. These courses will, if desired, be given in the second semester, thus making with the required mathematics of the first semester a total of five hours throughout the year. Students not wishing to elect mathematics with physics as a group, can count this half-year's work as their half-year of "Free Elective."

Major Course.

FIRST YEAR.
(*Minor Course.*)

1*st Semester.*

Mechanics and Electricity, Dr. Perkins.	*Five times weekly.*
Laboratory work.	*Three hours weekly.*

2*nd Semester.*

Sound, Heat and Light, Dr. Perkins.	*Five times weekly,*
Laboratory work.	*Three hours weekly.*

In the laboratory, the students are first instructed in the methods of accurate measurement of the simple quantities, length, time and weight, and in the laws governing the equilibrium and motion of bodies.

Later, they make determinations of electrical quantities, potential, resistance, capacity, etc.; and problems in heat, sound and light are studied and discussed.

The object of the work is to familiarise the students with the instruments and methods used in physical measurements, with special reference to the quantitative laws upon which the science is based. The laboratory is equipped with this object in view, and the apparatus is all of the most modern design.

SECOND YEAR.

1*st Semester.*

Theory of Errors, Mechanics and Electricity.	*Five times weekly.*
Laboratory work.	*Four hours weekly.*

2*nd Semester.*

Elementary Thermodynamics, Geometrical and Physical Optics.	*Five times weekly.*
Laboratory work.	*Four hours weekly.*

The lectures on Mechanics deal especially with the more important applications to physical problems. Those on Heat and Light consist of an extension of the treatment of the first year, and an endeavor is made to bring the students in contact with the work of original investigators.

In the laboratory work of the second year, more attention is paid to accuracy of measurement than in the first year, and the special problems assigned are adapted as far as possible to the requirements and wishes of the individual students. Special study is made of the sources and amount of the errors involved in the different operations.

Whenever possible, students will be directed to points of investigation left untouched by previous experimenters, or to the study of new methods of experiment and research.

Group: Physics with Mathematics; Physics with Chemistry; or Physics with Biology.

Chemistry.

The instruction in Chemistry is under the direction of Dr. Edward H. Keiser, Associate Professor of Chemistry.

Instruction in Chemistry for undergraduates is given by means of lectures, examinations and laboratory practice. This course extends over a period of two years, and consists of five lectures and a minimum of six hours of laboratory work weekly during both years. Stated briefly, the main purpose of the instruction in this department is to impart a thorough and systematic knowledge of chemical phenomena; to give a clear idea of the relations between the theories and the facts of the science; to train students to be accurate and skilful observers, familiar with all of the more important methods and instruments of investigation, and above all to encourage them in independent thought and research.

First Year.
(Minor Course.)

Major Course.

1st Semester.

Introduction to General Chemistry (Lectures), Dr. Keiser. *Five times weekly.*
Laboratory work. *Six hours weekly.*

The lectures of the first semester are a general introduction to chemistry. The more important properties of the elements and their compounds are considered, and a thorough study is made of the facts upon which the general laws of chemical action are based. The lectures are illustrated by a series of lecture table experiments.

The laboratory is open for the first year's students six hours weekly. The laboratory work begins with a series of exercises in manipulation, and in the more frequently occurring chemical operations. The students are taught the use of accurate measuring and weighing apparatus, and made familiar with the calculations employed in quantitative work. Analysis is taught only incidentally, and not as the chief object of the science. While studying the more important properties of the elements and their compounds, considerable attention is devoted to a study of the quantitative relations of the substances with which the students work.

2nd Semester.

General Chemistry (Lectures), Dr. Keiser. *Five times weekly.*
Laboratory work. *Six hours weekly.*

The lectures and exercises during the second semester are a continuation of the work of the first semester. A thorough study is made of the characters of chemical substances, and the principles of classification are explained. The laboratory work consists of a systematic study of the properties and behavior of the more important elements and compounds, and of a repetition of the more instructive experiments that have been previously performed in the lecture room.

SECOND YEAR.

1st Semester.

Lectures on Analytical and Physical Chemistry, Dr. Keiser. *Five times weekly.*

Laboratory work. *Six hours weekly.*

The lectures of the first portion of the semester of the second year's course are upon the methods of Analytical Chemistry. Processes for the detection, separation and estimation of elements are considered. These are followed by lectures upon Stoichiometry and Theoretical Chemistry.

The laboratory work is upon the subjects considered in the lectures; great care is taken to avoid a mere mechanical use of analytical tables, the student being encouraged to devise analytical methods without aid, using only the knowledge that she actually possesses.

2nd Semester.

Lectures on Carbon Compounds, Dr. Keiser. *Five times weekly.*

Laboratory work. *Six hours weekly.*

The subject of the lectures during the second semester is the chemistry of the hydrocarbons and their derivatives. Typical organic compounds are studied in detail, the general relations existing between classes of compounds, as well as the methods of transforming one class into another, are discussed. In these lectures the experimental processes and the reasoning employed in determining constitutional or structural formulas are considered, and an effort is made to trace out the influence which organic investigations have had in developing the general theories of the science, and in enlarging our conceptions of the ultimate constitution of matter. The laboratory work is continued as in the first semester, the greater portion of the course being devoted to Analytical Chemistry. Towards the end of the semester, some of the typical carbon compounds are prepared and studied in the laboratory.

Group: Chemistry with Biology; or Chemistry with Physics.

GRADUATE COURSES.

Graduate Courses. Opportunities for advanced study and research are provided for graduate students that have already such a knowledge of chemistry as would be obtained by taking the two years of work laid down for undergraduates, and for others who, although not graduates, are competent to follow the advanced courses profitably. The advanced work will consist of exercises intended to give the student a comprehensive knowledge of chemical methods and operations, and of difficult and typical preparations; the students will make researches on assigned topics. Advanced students will be required to become familiar with the literature bearing on their practical work. A knowledge of French and German will therefore be necessary. There will also be lectures from time to time upon selected topics, and upon the more recent researches in organic and inorganic chemistry.

Biology.

The instruction in Biology is under the direction of Dr. Edmund B. Wilson, Professor of Biology, and Dr. Frederic S. Lee, Associate in Physiology and Histology.

The course in Biology may extend through one, two or three years, and is equivalent throughout to five hours of lectures and other class exercises and six hours' laboratory practice a week. The work of the first year (minor course) forms a general introduction to the subject through a broad, comparative study of living things (General Biology). In the second year (major course) the foundation of a special knowledge of animal morphology and physiology is laid. The third year's work (post-major), which is offered only to students of marked aptitude, is devoted to advanced courses in special topics, to the study of current biological literature and to the practical investigation of special problems. A knowledge of the elements of Chemistry and Physics is very desirable for students entering any course in Biology.

First Year.

(Minor Course.)

Lectures on General Biology.	
Course A, Dr. Wilson.	*Three times weekly.*
Course B, Dr. Lee.	*Twice weekly.*
Laboratory work.	*Six hours weekly.*

It is the object of this course to give the student clear conceptions of the fundamental principles of vital structure and action, the outlines of general classification, and the relations of the biological sciences to one another, and to other branches of science. The laboratory practice is designed to enable the student, as far as possible, to examine for herself the facts discussed in the lectures, to encourage the habit of exact observation, to train the eye and the hand, and to impart a knowledge of methods of practical work.

The general subject is treated in two parallel courses (A and B), which supplement each other and must be taken together. Course A deals especially with the lower forms of life, the relations of plants and animals, and the more general principles of the science. Course B is devoted more largely to the higher forms of animal life, with especial reference to physiology.

The work is designed not simply to teach the elements of Zoology and Botany, as commonly understood, but beyond this to consider plants and animals with constant reference to one another, both in their structure and in their mode of action. Stress is therefore laid on the essential facts of comparative morphology and physiology (General Biology) as illustrated by the thorough study of a few types, rather than on the minutiæ of classification. At the same time, the work is arranged with reference to subsequent special work in Zoology, Botany and Physiology.

This necessarily involves an accurate study of vital phenomena in detail, which alone can form the groundwork of any real discipline in the science. The student is, however, led as far as possible to regard facts as illustrations of more general biological truths, and to estimate the importance of these truths beyond the immediate field of the specialist.

In the first semester the student examines a number of animals and plants, so arranged as to form a natural and progressive introduction to the general principles of Biology. After certain general preliminary studies on familiar and highly organised forms, the student makes a detailed examination of unicellular organisms, and from them proceeds gradually to the complex conditions of structure and function found in higher plants and animals. In the second semester attention is given mainly to the biology of the higher animals. The course ends with a thorough study of the embryology of the chick.

In the course of the general work of the year attention is given to Elementary Human Physiology, and to Elementary Botany and Plant Analysis; this work varies somewhat in character and extent, according to the needs of the student.

SECOND YEAR.

1st Semester.

General Zoology, Dr Wilson. *Three times weekly.*

Comparative Anatomy of Vertebrata, Dr. Lee. *Twice weekly.*

Laboratory work. *Six hours weekly.*

These courses extend the work of the first year so as to include a comprehensive survey of the phenomena of animal life. The course in General Zoology comprises a systematic presentation of the more important facts of general morphology, with especial reference to the relationships and classification of animals. The course in Comparative Anatomy is devoted to the morphology of vertebrates, and is designed to serve in part as a study of vertebrate homologies, in part as a preparation for the subsequent study of Animal Physiology and Histology. In the laboratory thorough dissections are made of typical forms, illustrating the leading groups of animals, and sufficient work is required in systematic zoology to teach the student how to name and classify animals, and to learn the relations between species, genera, and the higher groups. Students looking forward to the study of medicine are recommended to devote especial attention to the anatomy of higher vertebrates and to human and comparative osteology.

2nd Semester.

Advanced Physiology and Histology, Dr. Lee. *Three times weekly.*

Laboratory work. *Six hours weekly.*

A knowledge of scientific physiology is here conveyed by a detailed account of the microscopic structure and the mode of working of the higher animal organism. The application of this knowledge to Hygiene, Medicine, and Psychology is indicated.

The chief organs and tissues of the vertebrate body are examined with the microscope, and much practice in the preparation of histological specimens is obtained. The laboratory is equipped with a stock of physiological apparatus, and the fundamental facts of physiology and the methods of physiological inquiry are learned by means of demonstrations and experiments by the students.

Advanced Biology, Dr. Wilson. *Twice weekly.*

In this course the student is introduced to some of the leading questions of theoretical general biology. The first part of the course is devoted to the history of biological discovery, with especial reference to the development of the more important generalisations and theories of the science. The latter part is mainly occupied with a critical analysis of the theory of evolution and with discussions of the broader philosophical problems of biology, such as heredity, variation, adaptation, animal metamorphoses and kindred topics. These lectures vary somewhat from year to year, and are intended to be suggestive rather than exhaustive in character.

Group: Biology with Chemistry; Biology with Physics.

Graduate Courses.

Graduate Courses.

To students that have completed a major course in Biology or that have done an equivalent amount of work, advanced courses are offered in Comparative Anatomy, Physiology and Embryology. These courses consist in part of lectures and recitations, but mainly of practical instruction in the laboratory, supplemented by courses of reading. Special topics may be selected according to the wish or abilities of the student, and pursued with direct reference to original research. In such study students are required to familiarise themselves with the literature of the subject; a knowledge of French and German is therefore indispensable.

Physical Culture.

The health of the students is under the care of Dr. Carolyn C. Ladd, Director of the Gymnasium, and of a practicing physician, who visits the college every week, and can then be consulted by all the students free of charge.

The gymnasium (see page 52) is open for the use of students from 9 A.M. to 10 P.M. daily. Before admission to the gymnasium each student must be examined by the Director with reference to physical development, strength of heart and lungs, and hereditary tendencies. The exercises prescribed will be strictly individual, varying according to the physical development of the student; their effect will be tested by half-yearly examinations, and great pains will be taken to prevent any over-exertion.

Opportunities for Public Worship.

It was the desire of the Founder that the college should be pervaded by a simple and practical Christianity, and an endeavor will be made to promote this end.

In the vicinity of the college, there are churches of various denominations. Conveyances are supplied to enable students to attend the more distant places of worship, including the Friends' Meeting. There will be daily morning worship in the college.

COLLEGE BUILDINGS.

The college buildings are situated ten miles west of Philadelphia, on the Pennsylvania Railroad, a quarter of a mile from the Bryn Mawr Station; the neighboring country is agreeable and very healthful, and towards the west there is a fine prospect of hills. The college grounds cover forty acres, and include planted lawns and tennis courts; they are surrounded by private villas.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains the lecture-rooms and laboratories, and the offices of administration. It is the wish of the Trustees to transfer the scientific departments of the College to a new building. Taylor Hall will soon be entirely occupied by the library and by the remaining departments; and it is suggested to all persons who wish to bestow gifts on the College, to contribute to the $70,000 needed for the new building.

Around Taylor Hall it is the intention of the Trustees to erect halls for the accommodation of students; descriptions of Merion Hall and of Radnor Hall are annexed to the present Program. Denbigh Hall, a third hall of residence, will be ready for occupation in the autumn of 1890.

The Gymnasium is one of the most commodious yet provided for women. It contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather; a room for the Director, to which is attached another for the examination and record of the physical development of the students, and bathrooms for use after exercise. It is open to the students at all times. This gymnasium has been built in accordance with the system of Dr. Sargent; it is furnished with his complete apparatus, and is under the charge of a Physician who has completed his course of instruction.

Near the college is a Telegraph Office, Adams' Express Office, and United States Money Order Office. There are good roads in every direction. Riding horses and phaetons may be kept in a livery stable near the college, at a cost of twenty-five dollars a month.

BRYN MAWR COLLEGE.

JUNE, 1890.

THE Trustees have made the following additional academic appointments:

CHARLES COTTON BLACKSHEAR, PH.D., *Instructor in Chemistry.*

A.B., Mercer University, 1881; studied at Johns Hopkins University, 1886-1890; Ph.D., Johns Hopkins University, 1890.

The appointment of Dr. Blackshear will enable the department of chemistry to offer in 1890–91 the courses in chemistry both of the first and second year, as announced on pages 47 and 48 of the Program for 1890. Hitherto these courses have been given in alternate years.

MABEL PARKER CLARK, A. M., *Reader in English.*

A.B., Bryn Mawr College, 1889; Fellow in English, Bryn Mawr College, 1889-90; A.M., Bryn Mawr College, 1890.

THOMAS MCCABE, PH.D., *Associate in Romance Languages* for 1890–91, and *Associate Professor of Romance Languages* in 1891–92.

Studied at the Sorbonne and College de France, Paris, 1882–83; at the University of Rome, 1883; at the Universities of Zürich and Berlin, 1883–1885; Fellow in Romance Languages, Johns Hopkins University, 1887–88; Ph.D., Johns Hopkins University, 1888; Instructor in Romance Langnages, University of Michigan, 1888–89; Professor of Modern Languages, Indiana University, 1889–90.

BIBLICAL STUDY.

GEORGE A. BARTON, A.M., *Associate in Biblical Study and Semitic Languages.*

A.B., Haverford College, 1882; A.M., Haverford College, 1885; A.M., Harvard University, 1890.

In 1891–92 the instruction in Biblical Study will be under the direction of George A. Barton, A.M. This instruction will include courses upon the origin and literary character of the books of the Bible, and the unfolding of religious truth in them. There will be, also, elective courses in New Testament Greek; and, for graduate students, courses may be added in Hebrew and some of the Semitic languages.

REQUIRED COURSE.

I. Lectures on the origin and contents of the books of the Bible. *Once weekly.*

ELECTIVE COURSES.

II. The History of Israel from the Judges to the fall of Jerusalem, with a sketch of the life of Christ and of Apostolic teaching. *Three hours weekly.*

III. New Testament Greek.

This course will presuppose a knowledge of classical Greek. It will treat of the linguistic peculiarities of New Testament Greek, and be accompanied by a study of the text. *Two hours weekly.*

IV. Hebrew Grammar and reading of Texts. *Two hours weekly.*

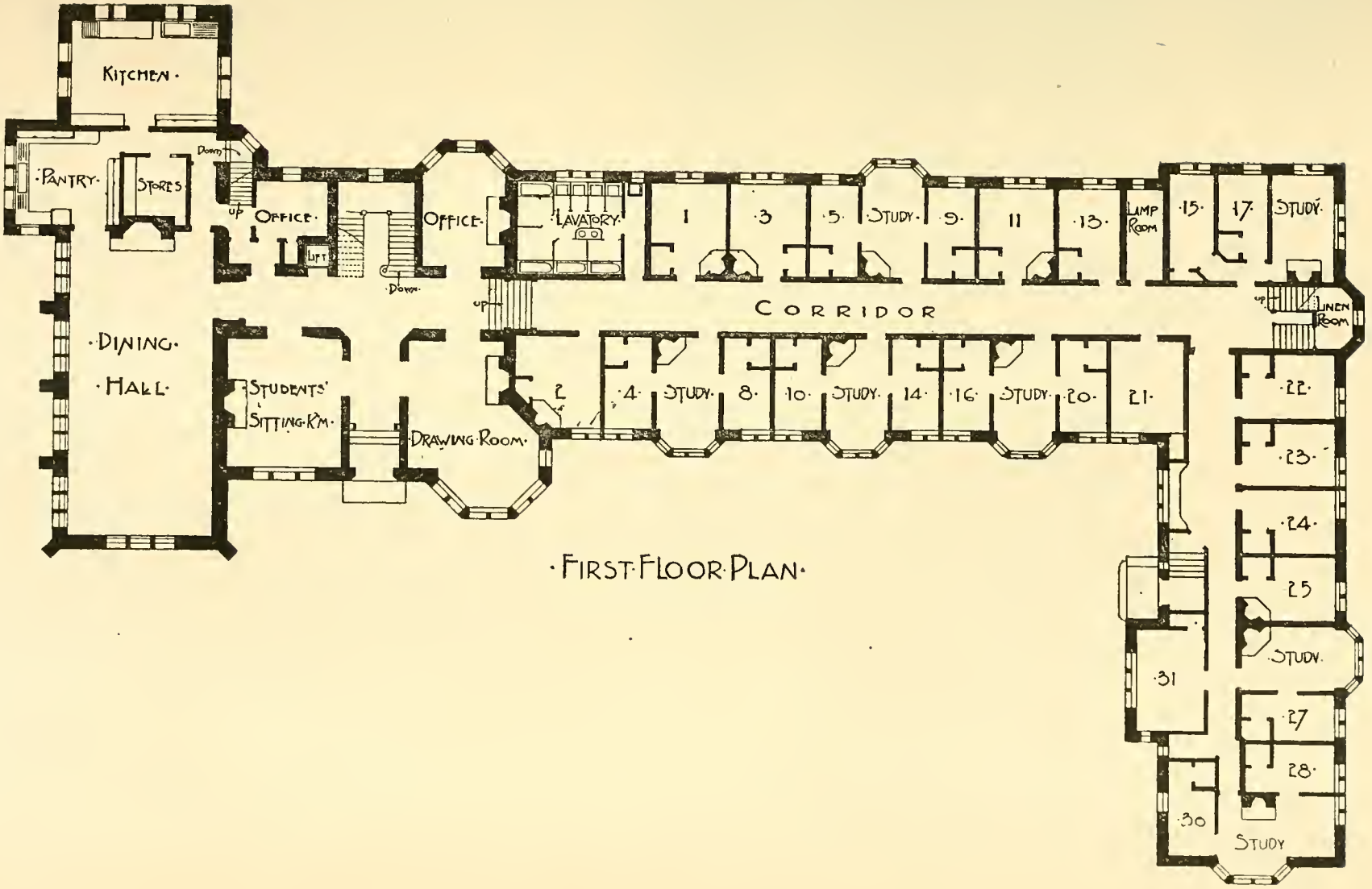
GRADUATE COURSES.

Two alternate courses will be offered to graduate students, one only of which will be offered in any year.

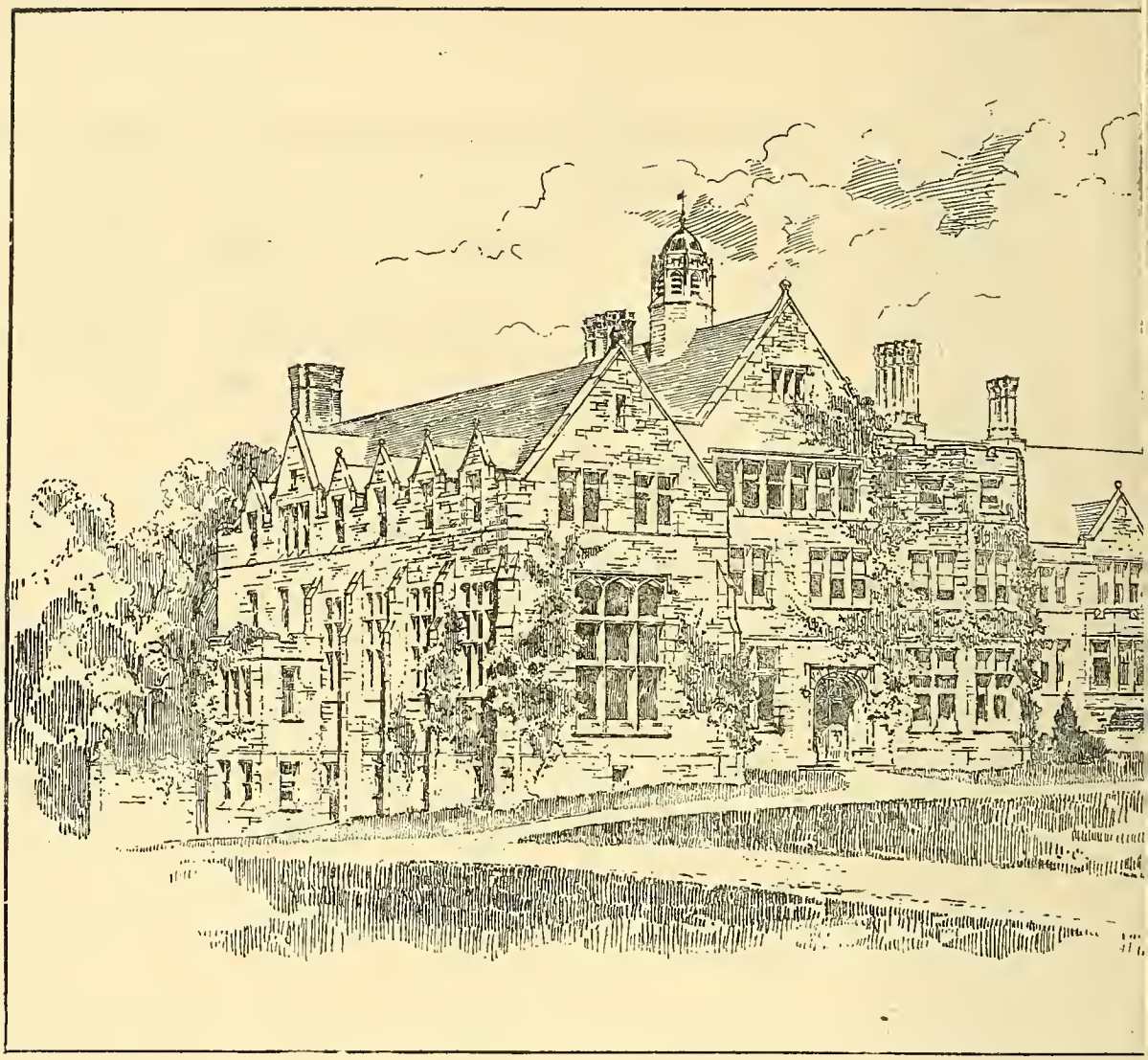
I. History and growth of Religious Ideas in Israel, including a view of the New Testament Religious Ideas. *Two hours weekly.*

II. Assyrian or Aramaic (including Syriac and Biblical Aramaic).


Kitchen



FIRST FLOOR PLAN



FROM THE

DENBIG

Denbigh Hall is the third hall of residence, and it is expected it wil sixty students. It contains (*a*) three sets of two rooms, each set to be occu and a study ; (*c*) nine sets similar to the preceding, but more commodiou (*f*) thirteen single rooms somewhat smaller than the preceding rooms ; and rooms there is an open fire place ; there will be provided for each studer will be carpeted and completely furnished. The building will be lighted by have a carefully planned system of ventilation. Board will be charged at th

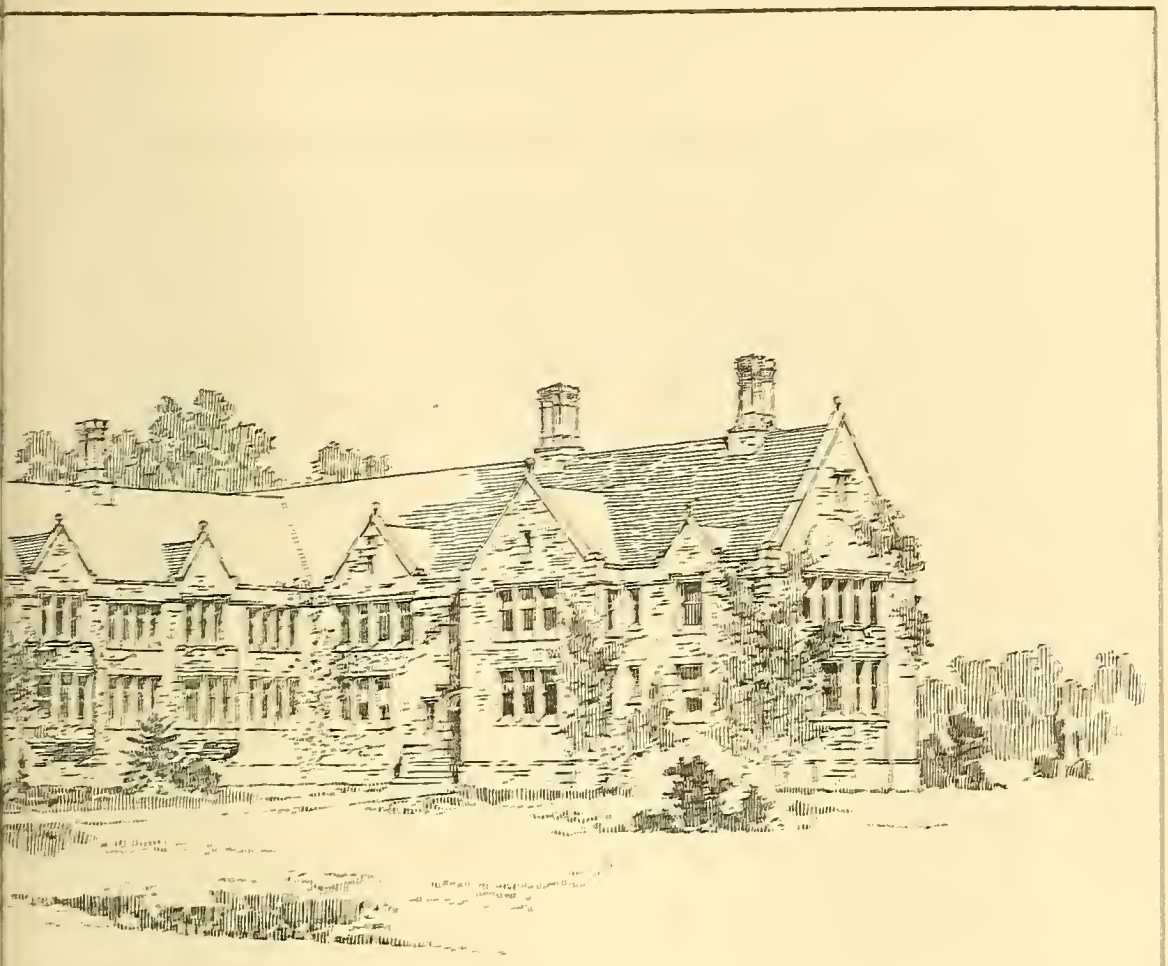
The tariff for rooms for each student, exclusive of board will be, for roo room (*d*), $175 a year ; for rooms (*e*), $150 a year ; for rooms (*f*), $125 a year rooms should be made as early as possible.

The above-mentioned charges include all expenses of furnishing, service

For washing, including towels, an annual charge of $18 a year is made t them to a dozen pieces a week. All washing in excess of one dozen pieces a

The charges for rooms and board do not include the fee for collegiate ins

The entire charge for tuition and for board and residence in Denbigh Ha (rooms *d*) $425 a year ; (rooms *e*) $400 a year ; (rooms *f*) $375 a year ; (roon



WEST.

HALL.

opened in the fall of 1890. It is built of stone, and will accommodate
by one student; (*b*) four sets of rooms, comprising each two bed-rooms
(*d*) a room for one student, large and desirable; (*e*) fifteen single rooms;
wo small single rooms. In each study and in each of the larger single
book-case, a study-table, an arm-chair, and a student's lamp. The rooms
, and warmed by currents of air passing over steam-heated pipes. It will
te of $150 a year.

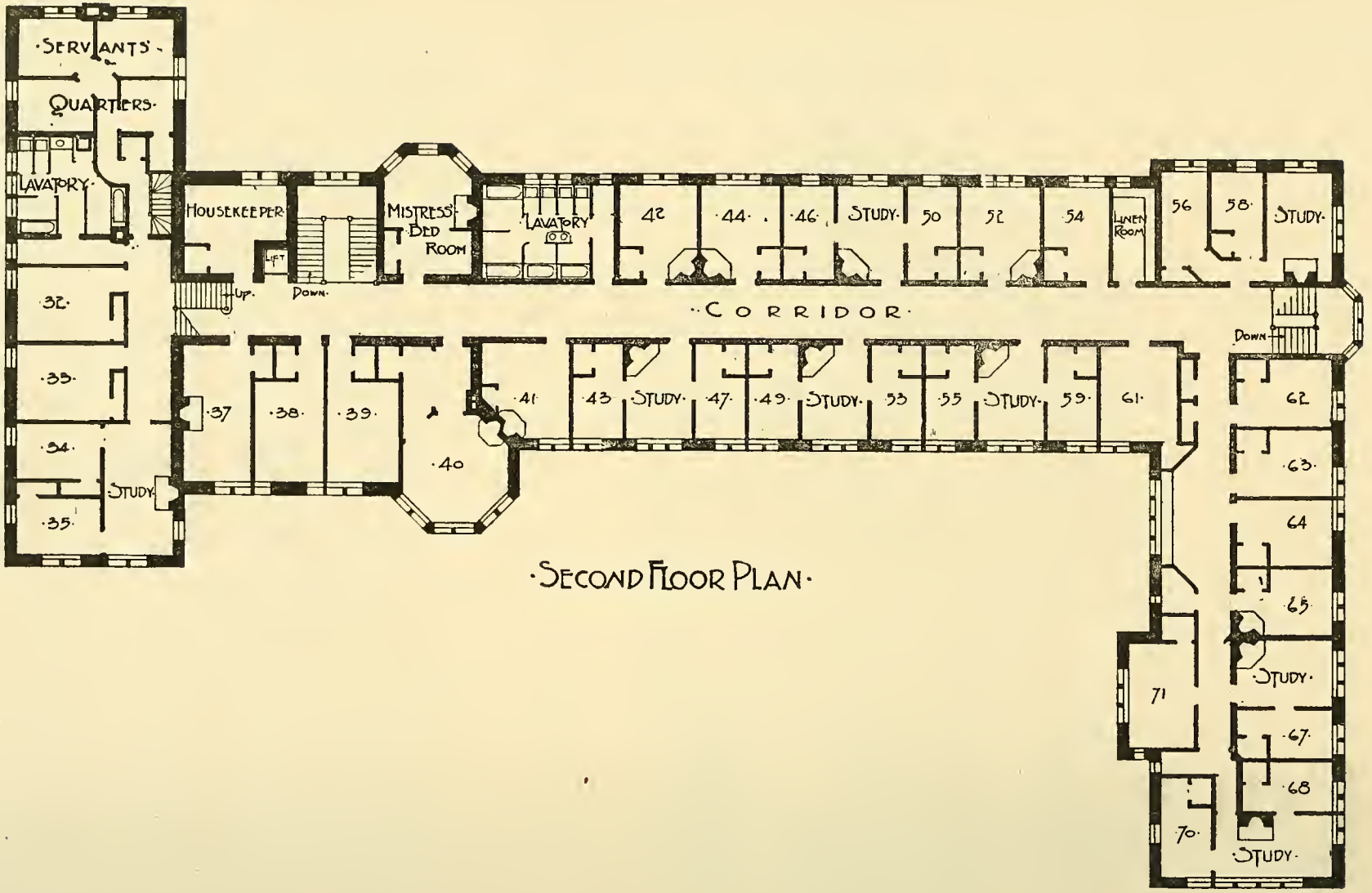
a), $250 a year; for rooms (*b*), $150 a year; for rooms (*c*), $175 a year; for
room (*g*), $100 a year; for room (*h*), $75 a year. Applications for special

ting and light, except open fires and washing.

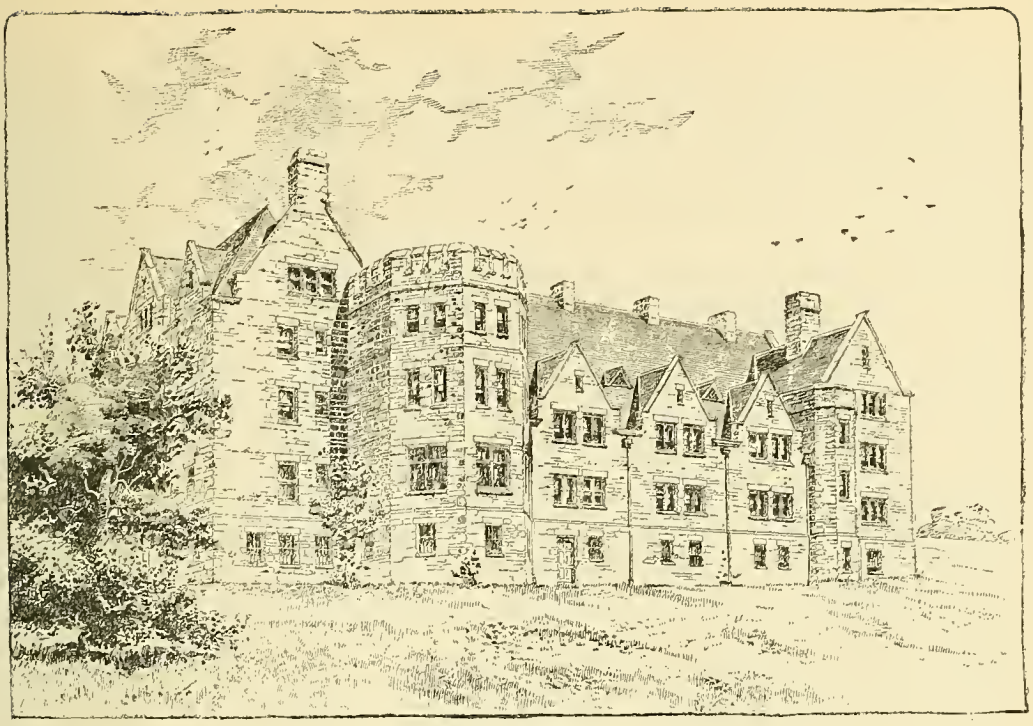
se students that prefer to have their washing done in the college, entitling
will be charged at the rate of 50 cents a dozen for plain garments.

tion, which is $100 a year. See Program, page 23.

ooms *a*) will be $500 a year; (rooms *b*) $400 a year; (rooms *c*) $425 a year;
350 a year; (room *h*) $325 a year.



SECOND FLOOR PLAN



FROM THE NORTH.

RADNOR HALL.

Radnor Hall is under the charge of Miss Hannah T. Shipley.

It was the second hall of residence opened, and was completed in 1887. It is built of stone, and will accommodate about fifty students. It contains (*a*) three sets of rooms, comprising each two bed-rooms and a study; (*b*) forty-two single rooms; and (*c*) three sets of two rooms, each set to be occupied by one student. There is provided for each student a book-case, a study-table, an arm-chair, and a student's lamp. The rooms are carpeted and completely furnished. The building is lighted by gas.

Board is charged at the rate of $150 a year.

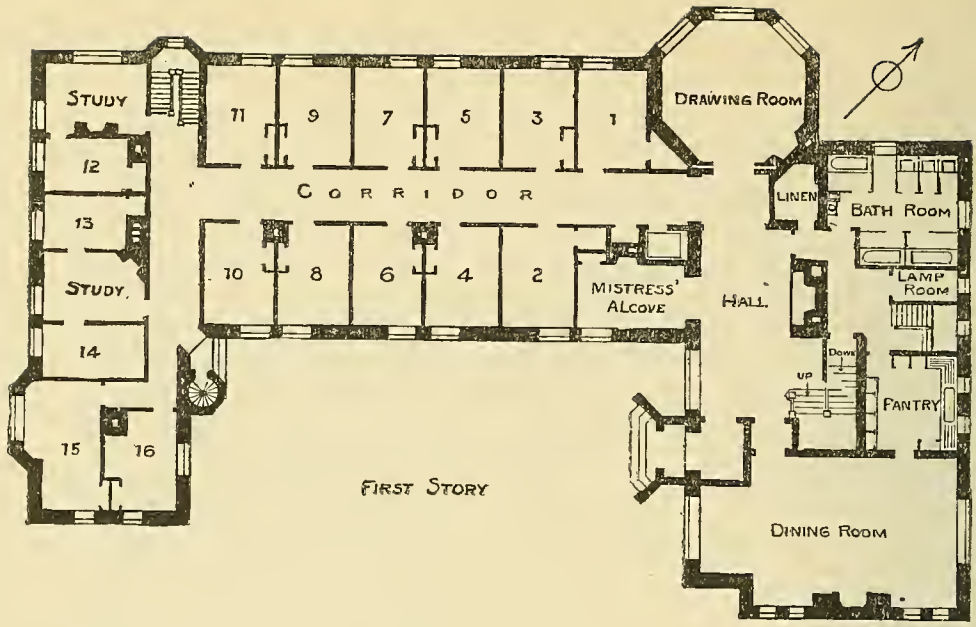
The tariff for rooms for each student, exclusive of board, is, for rooms (*a*), $150 a year; for rooms (*b*), $125 a year; for rooms (*c*), $250 a year. Applications for special rooms should be made as early as possible.

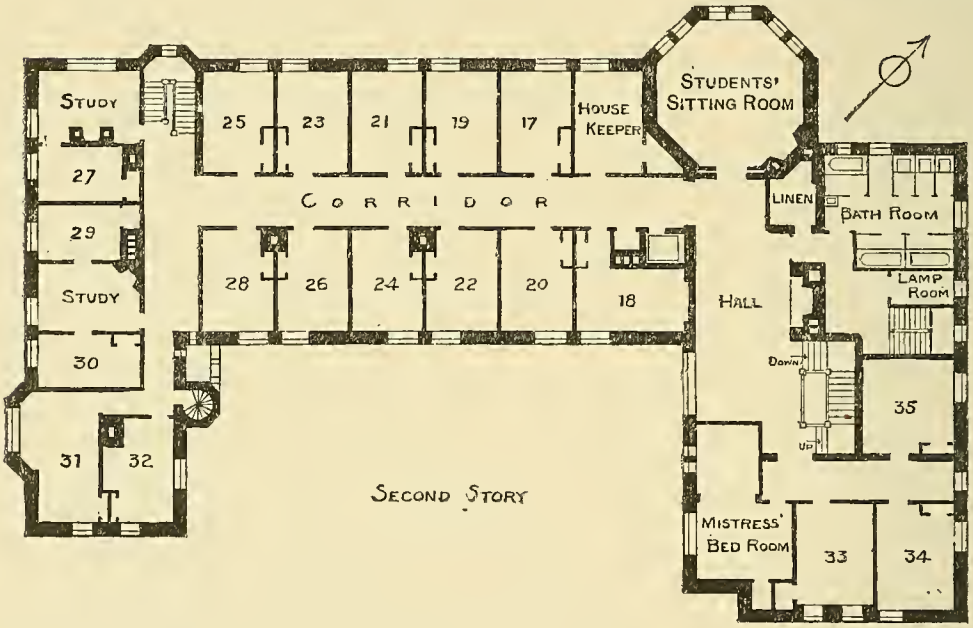
The above-mentioned charges include all expenses of furnishing, service, heating and light, except open fires and washing.

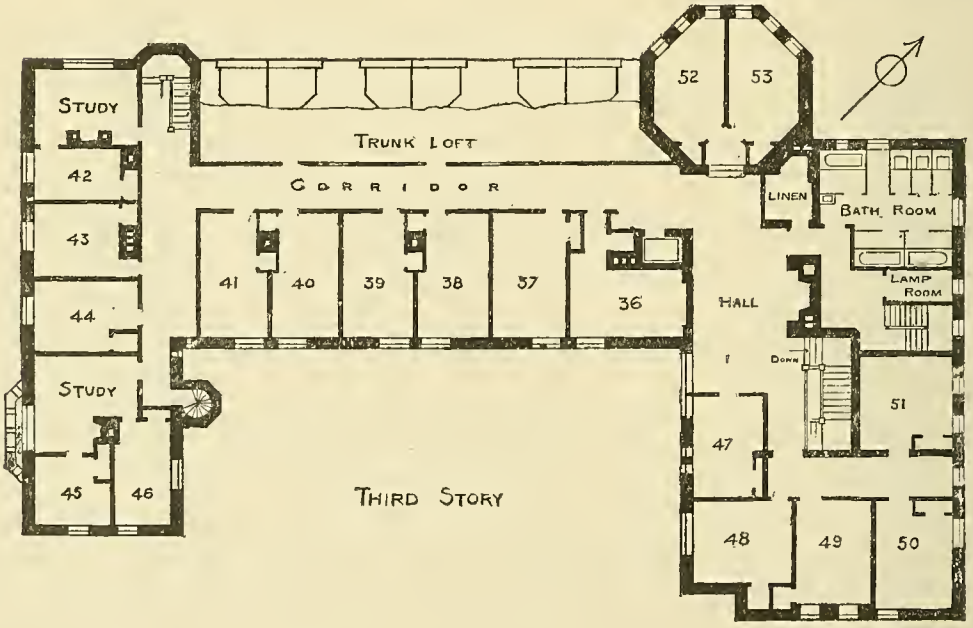
For washing, including towels, an annual charge of $18 a year is made to those students that prefer to have their washing done in the college, entitling them to a dozen pieces a week. All washing in excess of one dozen pieces a week will be charged at the rate of 50 cents a dozen for plain garments.

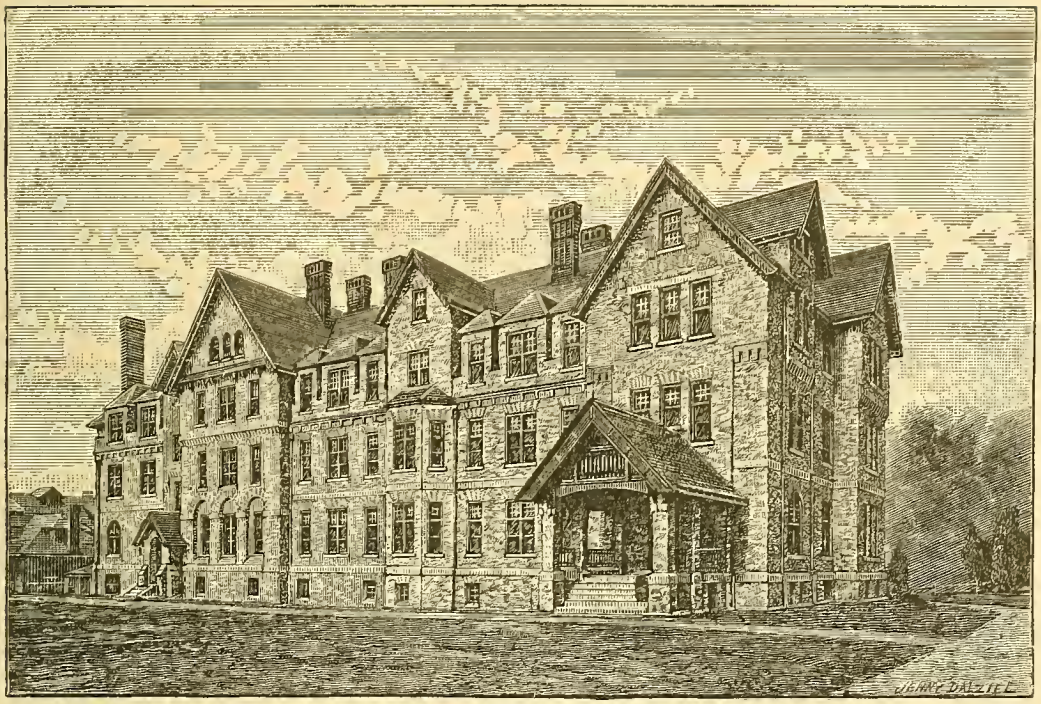
The charges for rooms and board do not include the fee for collegiate instruction, which is a $100 a year. See program, page 23.

The entire charge for tuition and for board and residence in Radnor Hall (rooms *b*) is $375 a year; (rooms *a*) $400; (rooms *c*) $500.


STUDY
11
9
7
5
3
1
DRAWING ROOM
12
CORRIDOR
LINEN
BATH ROOM
13
10
8
6
4
2
MISTRESS' ALCOVE
HALL
LAMP ROOM
STUDY
14
DOWN
UP
PANTRY
15
16
FIRST STORY
DINING ROOM


STUDY
25
23
21
19
17
HOUSE KEEPER
STUDENTS' SITTING ROOM
27
CORRIDOR
LINEN
BATH ROOM
29
28
26
24
22
20
18
HALL
LAMP ROOM
STUDY
DOWN
30
35
UP
31
32
SECOND STORY
MISTRESS' BED ROOM
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34


52
53
STUDY
TRUNK LOFT
42
CORRIDOR
LINEN
BATH ROOM
43
41
40
39
38
37
36
HALL
LAMP ROOM
44
DOWN
STUDY
51
47
45
46
THIRD STORY
48
49
50



MERION HALL.

Merion Hall is under the charge of Miss Lydia V. Smith.

It was the first hall of residence opened, and was completed in 1885; it is built of Fairmount stone, and will accommodate about fifty students. It contains eighteen sets of rooms, comprising each two bed-rooms and a study; ten ordinary single bed-rooms; and three rooms of exceptional size. In each study and in each of the single rooms there is an open fire-place; every study contains a bookcase, two study-tables, two arm-chairs and two student's lamps. The building is lighted by gas, and warmed by currents of air passing over steam-heated pipes.

Board is charged at the rate of $150 a year.

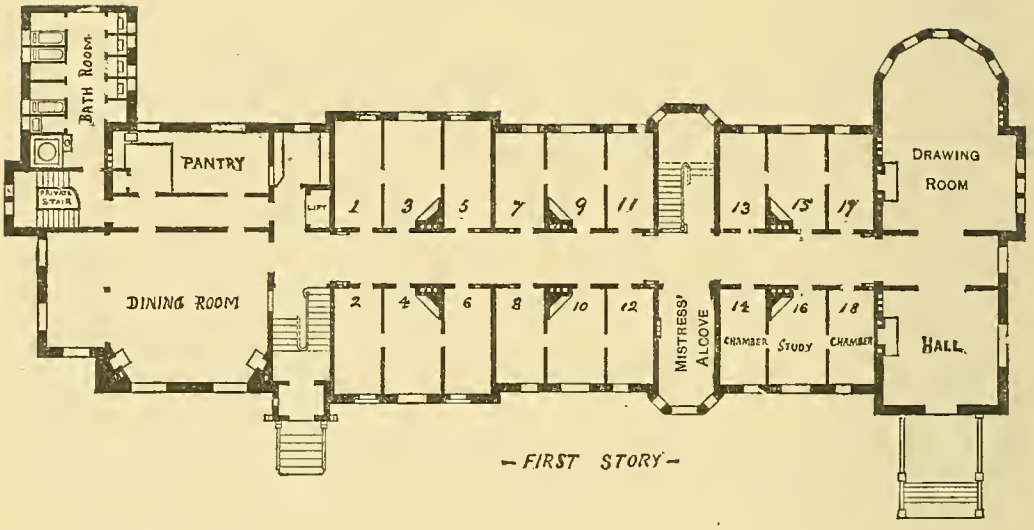
The tariff for sets of rooms is $300 a year, that is, $150 for each student; that for single rooms, $150, except for rooms Nos. 66 and 38, for which $125 will be charged; that for rooms Nos. 65 and 74, $180. Applications for special rooms should be made as early as possible.

The above-mentioned charges include all expenses of furnishing, service, heating, and light, except open fires and washing.

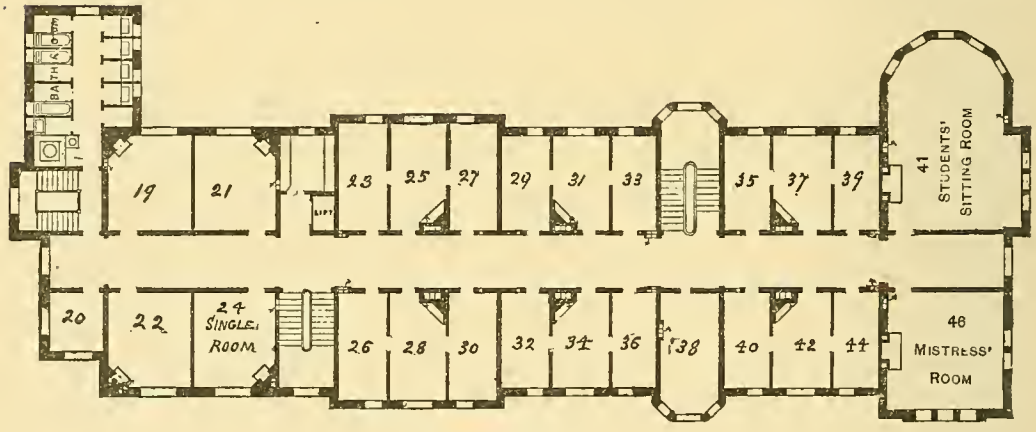
For washing, including towels, an annual charge of $18 a year is made to those students that prefer to have their washing done in the college, entitling them to a dozen pieces a week. All washing in excess of one dozen pieces a week will be charged at the rate of 50 cents a dozen for plain garments.

The charges for rooms and board do not include the fee for collegiate instruction, which is $100 a year. See Program, p. 23.

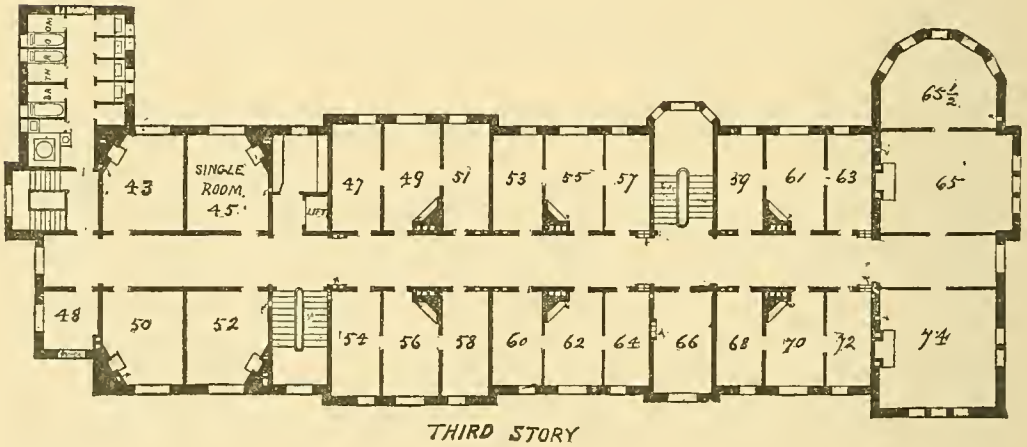
The entire charge for tuition and for board and residence in Merion Hall (except in Rooms Nos. 66, 65 and 74) is $400 a year.



— FIRST STORY —



SECOND STORY



THIRD STORY

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PROGRAM

BRYN MAWR COLLEGE.

1891.

PHILADELPHIA:
SHERMAN & CO., PRINTERS.
1891.

BRYN MAWR COLLEGE.

College Calendar.

1891.

JANUARY.

Su.	M.	Tu.	W.	Th.	Fr.	Sa.
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The present academic year will close with the Conferring of Degrees by the Trustees at eleven o'clock, on June 4th, 1891.

There will be a winter recess from December 19th, at three o'clock, to

January 6th, at nine o'clock; and a spring recess from March 24th, at three o'clock, to April 1st, at nine o'clock.

The first semester will end February 7th; half yearly examinations will be held during the last week of the semester, from February 2d to February 7th, and instead of a holiday on Washington's birthday, there will be a recess of two days before the beginning of the next semester, February 11th.

The lectures and class-work of the seventh academic year will begin September 29th, 1891, at nine o'clock, and will close June 2d, 1892.

There will be a winter recess from December 18th, 1891, at three o'clock, to January 5th, 1892, at nine o'clock; and a spring recess from April 12th, at three o'clock, to April 20th, at nine o'clock.

The first semester will end February 6th, 1892; half yearly examinations will be held during the last week of the semester, February 1st, to February 6th, and instead of a holiday on Washington's birthday there will be a recess of two days before the beginning of the next semester, February 10th, 1892.

Examinations for matriculation will be held during the week preceding the opening of each academic year, and also during the last week of each academic year.

May, 1891.		September, 1891.	
29.		22.	
English,	10—12	*English*,	10—12
Geometry,	3—5½	*Geometry*,	2—4½
30.		23.	
Arithmetic and Algebra,	9—12½	*Arithmetic and Algebra*,	9—12½
French,	3—6	*French*,	2—5
June 1.		24.	
Latin, { *Composition*, / *Cæsar and Cicero*, }	9—12	*Latin*, { *Composition*, / *Cæsar and Cicero*, }	9—12
Science,	2—4	*Science*,	2—4
2.		25.	
Latin, { *Virgil*,	9—10½	*Latin*, { *Virgil*,	9—10½
History,	11—1	*History*,	10½—12½
German,	3—6	*German*,	2—5
3.		26.	
Greek,	9—12	*Greek*,	9—12
Solid Geometry and Trigonometry,	2—5	*Solid Geometry and Trigonometry*,	2—5

MAY, 1892.

27.

English, ... 10—12
Geometry, ... 3—5½

28.

Arithmetic and Algebra, . . . 9—12½
French, ... 3—6

30.

Latin, { *Composition*, ... } 9—12
{ *Cæsar and Cicero*, . . }
Science, ... 2—4

31.

Latin, { *Virgil*, ... 9—10½
History, ... 11—1
German, ... 3—6

JUNE 1.

Greek, ... 9—12
Solid Geometry and Trigonometry, 2—5

SEPTEMBER, 1892.

20.

English, ... 10—12
Geometry, ... 2—4½

21.

Arithmetic and Algebra, . . . 9—12½
French, ... 2—5

22.

Latin, { *Composition*, ... } 9—12
{ *Cæsar and Cicero*, . . }
Science, ... 2—4

23.

Latin, { *Virgil*, ... 9—10½
History, ... 10½—12½
German, ... 2—5

24.

Greek, ... 9—12
Solid Geometry and Trigonometry, 2—5

Board of Trustees.

Francis T. King,
President.

John B. Garrett,
Treasurer.

David Scull, Jr.,
Secretary.

Francis T. King, Baltimore.	Charles Hartshorne, Philadelphia.
Charles S. Taylor, Burlington, N. J.	David Scull, Jr., Philadelphia.
James Carey Thomas, Baltimore.	William R. Thurston, New York.
James E. Rhoads, Bryn Mawr.	Albert K. Smiley, Lake Mohonk.
James Whitall, Philadelphia.	Francis R. Cope, Philadelphia.
John B. Garrett, Rosemont.	Philip C. Garrett, Philadelphia.

Edward Bettle, Jr., Philadelphia.

Academic Appointments.

James E. Rhoads, LL.D., *President of the College.*

M. Carey Thomas, Ph.D., *Dean of the Faculty and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877–78; University of Leipsic, 1879–82; Ph.D., University of Zürich, 1882; Sorbonne and the Collége de France, 1883.

Edmund B. Wilson, Ph.D., *Professor of Biology.*

Ph.B., Yale College, 1878; Fellow in Biology, Johns Hopkins University, 1879–81; Ph.D., Johns Hopkins University, 1881; Assistant in Biology, Johns Hopkins University, 1881–82; studied at the Universities of Cambridge and Leipsic, and at the Biological Station, Naples, 1882–83; Lecturer on Biology, Williams College, Mass., 1883–84; Lecturer on Comparative Anatomy and Physiology in the Massachusetts Institute of Technology, 1884–85.

Charlotte Angas Scott, D.Sc., *Associate Professor of Mathematics.*

Lincoln, England. Graduate in Honors, Girton College, Cambridge, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, Cambridge, 1880–84; lectured in connection with Newnham College, 1880–83; D.Sc., University of London, 1885.

Edward Washburn Hopkins, Ph.D., *Associate Professor of Greek, Sanskrit, and Comparative Philology.*

A.B., Columbia College, 1878; Fellow in Literature, Columbia College, 1878–81; University of Leipsic, 1878–81; University of Berlin, 1880; Ph.D., University of Leipsic, 1881; Sorbonne and the Collège de France, 1881; Assistant in Latin and Instructor in Zend, Columbia College, 1881–84.

Paul Shorey, Ph.D., *Associate Professor of Greek and Latin.*

A.B., Harvard College, 1878; University of Leipsic, 1881–82; University of Bonn, 1882; American School of Classical Studies, Athens, 1882–83; Ph.D., University of Munich, 1884.

Edward H. Keiser, Ph.D., *Associate Professor of Chemistry.*

S.B., Swarthmore College, 1880; Assistant in Chemistry in Swarthmore College, 1880–81; S.M., Swarthmore College, 1881; Fellow in Chemistry, Johns Hopkins University, 1882–84; Ph.D., Johns Hopkins University, 1884; student at the Royal School of Mines, Freiberg, Saxony, 1884; Assistant in Chemistry, Johns Hopkins University, 1884–85.

Hermann Collitz, Ph.D., *Associate Professor of German Literature and Language.*

Bleckede, Hanover, Germany. University of Göttingen, 1875–78; University of Berlin, 1878–81; Ph.D., University of Göttingen, 1878; Privatdocent in the University of Halle, 1885–86.

Charles A. Perkins, Ph.D., *Associate in Physics.*

A.B., Williams College, 1879; Fellow in Physics, Johns Hopkins University, 1883–84, and Ph.D., 1884; Assistant in Physics, Johns Hopkins University, 1884–87.

Frederic S. Lee, Ph.D., *Associate in Physiology and Histology.*

A.B., St. Lawrence University, 1878, and A.M., 1881; Fellow in Biology, Johns Hopkins University, 1884-85, and Ph.D., 1885; studied at the University of Leipsic, 1885–86; Instructor in Physiology, St. Lawrence University, 1886–87.

James Harkness, M.A. (*Cambridge and London*), *Associate in Mathematics.*

Derby, England. Major Scholar, Trinity College, Cambridge, 1882; Graduate in Honors (8th Wrangler), in the Cambridge Mathematical Tripos, 1885; Mathematical Exhibitioner, London University Intermediate Arts Examination, 1885; Mathematical Scholar, London University B.A. Examination, 1887.

HERBERT WEIR SMYTH, Ph.D., *Associate in Greek and Latin.*

A.B., Swarthmore College, 1876; and Harvard University, 1878; University of Leipsic, 1879-81; University of Göttingen, 1881-83; Instructor in Classics and Sanskrit, Williams College, 1883-85; Ph.D., University of Göttingen, 1884; Fellow by Courtesy and Lecturer on Greek, Johns Hopkins University, 1885-87; Reader in Greek Literature, Johns Hopkins University, 1887-88.

MARY GWINN, PH.D., *Associate in English.*

Studied at the University of Leipsic, 1879-82; University of Zürich, 1882; Sorbonne and the Collége de France, 1883; Fellow in English, Bryn Mawr College, 1885-87, and Ph.D., Bryn Mawr College, 1888.

FRANKLIN H. GIDDINGS, A.M., *Associate in Political Science.*

A.B., Union College, 1877, and A.M., 1889.

ROSE CHAMBERLIN, *Instructor in French and German.*

Great Yarmouth, England. Graduate in Honors, Newnham College (Mediæval and Modern Languages Tripos, First Class) University of Cambridge, England, 1886.

CHARLES FLINT MCCLUMPHA, PH.D., *Associate in Anglo-Saxon.*

A.B., Princeton College, 1885, and A.M., 1888; University of Leipsic, 1885-88, and Ph.D., 1888.

CHARLES MCLEAN ANDREWS, Ph.D., *Associate in History.*

A.B., Trinity College, 1884; Fellow in Johns Hopkins University, 1888-89; and Ph.D., 1889.

GONZALES LODGE, PH.D, *Associate in Latin.*

A.B., Johns Hopkins University, 1883; Graduate Scholar and Fellow, Johns Hopkins University, 1883-86, and Ph.D., 1886; Professor of Greek, Davidson College, 1886-88; American School of Classical Studies, Athens, 1888-89; University of Bonn, 1889.

CHARLES COTTON BLACKSHEAR, PH.D., *Instructor in Chemistry.*

A.B., Mercer University, 1881; studied at Johns Hopkins University, 1886-1890; Ph.D., Johns Hopkins University, 1890.

MABEL PARKER CLARK, A.M., *Reader in English.*

A.B., Bryn Mawr College, 1889; Fellow in English, Bryn Mawr College, 1889-90; A.M., Bryn Mawr College, 1890.

THOMAS MCCABE, PH.D., *Associate in Romance Languages* for 1890-91, and *Associate Professor of Romance Languages*, in 1891-92.

Studied at the Sorbonne and Collége de France, Paris, 1882-84; at the University of Rome, 1884; at the Universities of Zürich and Berlin, 1885; Student at Johns Hopkins University, 1885-1888; Fellow in Romance Languages, Johns Hopkins University, 1887-88; Ph.D., Johns Hopkins University, 1888; Instructor in Romance Languages, University of Michigan, 1888-89; Professor of Germanic Languages, Indiana University, 1889-90.

GEORGE A. BARTON, A M., *Associate in Biblical Study and Semitic Languages.*

A.B., Haverford College, 1882, and A.M., 1885; A.M., Harvard University, 1890.

CAROLYN C. LADD HALL, M.D., *Medical Examiner to the Bryn Mawr College Gymnasium.*

Graduate of Dr. Sargent's Training School, 1884-85; M.D., Woman's Medical College of Pennsylvania, 1889.

ANNA DONALDSON MCNAIR, A.B., *Director of the Gymnasium.*

A.B., Antioch College, 1886; Studied under Dr. Sargent, 1889-90.

ANNA E. BROOMALL, M.D., *Consulting Physician of the College.*

Professor in the Woman's Medical College of Pennsylvania.

IDA RICHARDSON, M.D., *Physician of the College.*

LEAH GOFF, A.B., *Demonstrator in the Biological Laboratory.*

A.B., Bryn Mawr College, 1889.

FLORENCE E. PEIRCE,* *Librarian.*

HENRIETTA R. PALMER, *Acting Librarian for the year* 1890-91.

Graduate of the School of Library Economy, Columbia College, 1889.

JULIA COPE, A.B., *Secretary.*

A.B, Bryn Mawr College, 1889.

* Granted leave of absence for the year 1890-91.

Honorary Corresponding Secretaries.

MARY MCMURTRIE, A.B. (Bryn Mawr College), 1104 *Spruce Street*, PHILADELPHIA.

SOPHIA WEYGANDT, A.B. (Bryn Mawr College), *Upsal Street*, GERMANTOWN.

MARGARET C. THOMAS, A.B. (Bryn Mawr College), 1228 *Madison Avenue*, BALTIMORE.

EMILY GREENE BALCH, A.B. (Bryn Mawr College), *Jamaica Plain*, BOSTON.

ANNE TAYLOR, A.B. (Bryn Mawr College), *College Hill*, CINCINNATI.

CATHERINE E. BEAN, A.B. (Bryn Mawr College), *College Park*, STA. CLARA COUNTY, CALIFORNIA.

ALYS WHITALL PEARSALL SMITH, A.B. (Bryn Mawr College), 40 *Grosvenor Road S. W.*, LONDON, ENGLAND.

STUDENTS.

Fellows and Graduate Students.

KATHARINE MORRIS SHIPLEY, . *Holder of the Bryn Mawr European Fellowship.*
Cincinnati, Ohio. A.B., Bryn Mawr College, 1890.

IDA WOOD, ... *Fellow by Courtesy in English.*
Philadelphia, Pa. A.B., Vassar College, 1877, and A.M., 1889. Fellow in English, Bryn Mawr College, 1888-89.

RUTH GENTRY, ... *Fellow in Mathematics.*
Stilesville, Ind. Ph.B., University of Michigan, 1890.

ELIZABETH HARRIS, ... *Fellow in Greek.*
Germantown, Pa. A.B., Bryn Mawr College, 1890.

KATHARINE MERRILL, ... *Fellow in English.*
Abilene, Kansas. A.B., Kansas State University, 1889. Studied at Bryn Mawr College, 1889-90.

AGNES MATHILDE WERGELAND, ... *Fellow in History.*
Christiania, Norway. Studied under the direction of Prof. Konrad Maurer, Münieh, 1884-86; University of Zürich, 1888-90; Ph.D., University of Zürich, 1890.

MARIAN WILHELMINA MACINTOSH, . . *Graduate Scholar in Greek*, 1890-91.
Philadelphia, Pa. A.B., Bryn Mawr College, 1890.

MARGUERITE SWEET, ... *Graduate Scholar in English*, 1889-91.
Albany, N. Y. A.B., Vassar College, 1887; Graduate Student, Bryn Mawr College, 1889-90.

ELEANOR MOORE HIESTAND, ... 1890-91.
Vassar College. 1876-78; M.D., Woman's Medical College of Pennsylvania, 1890; Demonstrator of Chemistry in the Woman's Medical College of Pennsylvania.

MARY ELIZABETH MILLER, ... *English and German*, 1890-91.
Beaver Falls, Pa. B.S., Geneva College, 1890.

FLORA ALICE NEWLIN, ... *History and Political Economy*, 1890-91.
Lawrence, Kansas. A.B., Kansas State University, 1889.

HARRIOT C. REITZE, ... *German and Mathematics*, 1890-91.
Meadville, Pa. A.B., Allegheny College, 1887.

Undergraduates.

MADELINE VAUGHAN ABBOTT, ... *Group,* ———, 1889–91.
Cambridge, Mass. Prepared by Cambridge Latin School, Cambridge, Mass.

ELIZA RAYMOND ADAMS, . . . *Group, History and Political Science,* 1888–91.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind., and by Miss Mary E. Stevens' School, Germantown, Pa.

HELEN CULBERTSON ANNAN, . *Group, History and Political Science,* 1887–91.
New York City. Prepared by Mrs. Comegys' and Miss Bell's School, Chestnut Hill, Pa.

EMMA LOUISE ATKINS, ... *Group, Mathematics and Physics,* 1889–91.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

SARAH FRANCES ATKINS, . . *Group, History and Political Science,* 1889–91.
Indianapolis, Ind. Classical Course, University of Michigan, 1887–88.

MARY JANNEY ATKINSON, . . . *Group, Biology and Chemistry,* 1890–91.
Lahaska, Pa. Wellesley College, 1888–90.

EMMA DOLL BAILEY, ... *Group, French and German,* 1890–91.
Harrisburg, Pa. Prepared by Miss Miss M. E. Stevens' School, Germantown, Pa.

JESSIE ELLEN BARRITT, . . . *Group, History and Political Science,* 1888–91.
Croydon, England. Prepared by Sidcot School, Somersetshire, England, and The Mount School, York, England.

MARIA VOORHÉES BEDINGER, . . . *Group, Mathematics and Physics,* 1888–91.
Anchorage, Kentucky. Prepared by Bellewood Seminary.

ALICE BELIN, ... *Group, German and Latin,* 1888–91.
Scranton, Pa. Prepared by Miss Kate Hand, Scranton, Pa.

LILLIE BIRCH, ... *Group, Greek and Latin,* 1887–91.
Philadelphia, Pa. Prepared by Girls' Normal School, Philadelphia, Pa.

MABEL BIRDSALL, ... *Group,* ———, 1890–91.
Glens Falls, N. Y. Prepared by Glens Falls Academy.

EDNA ALWILDA BOWMAN, ... *Group,* ———, 1890–91.
San José, Cal. University of the Pacific, 1885–89. Prepared by Miss M. E. Stevens' School, Germantown, Pa., and by private study.

ABBY SLADE BRAYTON, ... *Group,* ———, 1890–91.
Fall River, Mass. Prepared by B. M. C. Durfee High School, Fall River, Mass., and by Miss M. E. Stevens' School, Germantown, Pa.

MARY BIDWELL BREED, ... *Group,* ———, 1890–91.
Pittsburgh, Pa. Graduate Pennsylvania Female College.

NELLIE BRIGGS, ... *Group, German and Latin,* 1890–91.
Grinnell, Iowa. Iowa College, 1882–87.

JANE LOUISE BROWNELL, . . . *Group, History and Political Science,* 1889–91.
Bristol, Conn. Prepared by High School, Hartford, Conn., and by private study.

LOUISE SHEFFIELD BROWNELL, ... *Group, Greek and Latin,* 1889–91.
New York City. Prepared by Mrs. Griffitts' School, New York City.

EMILY LOUISA BULL, ... *Group, Greek and Latin,* 1887–91.
Oneonta, N. Y. Prepared by Oneonta Union School, Oneonta, N. Y.

ESTHER F. BYRNES, ... *Group, Biology and Chemistry,* 1887–91.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, Pa., and private study.

ELIZABETH MAXWELL CARROLL, ... *Group, Greek and Latin,* 1888–91.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

SUE SHIRLEY CHENAULT, ... *Group,* ———, 1890–91.
Louisville, Ky. Wellesley College, 1886–87.

OLIVIA SUSAN CLEMENS, ... *Group*, ———, 1890–91.
Hartford, Conn. Prepared by private study.

HELEN THEODORA CLEMENTS, . *Group, History and Political Science*, 1888–91.
Philadelphia, Pa. Prepared by Ogontz School.

KATE HOLLADAY CLAGHORN, ... *Group, Greek and Latin*, 1889–91.
Brooklyn, N. Y. Prepared by Mr. Caskie Harrison, Brooklyn, N. Y. Passed examination in Columbia College.

ELISA COATES, ... *Group*, ———, 1890–91.
Philadelphia, Pa. Prepared by Miss Agnes Irwin's School, Philadelphia, Pa.

ELIZABETH COOKE, ... *Special Student in Biology*, 1890–91.
Cedar Rapids, Iowa. Coe College, 1884–88; University of Michigan, 1888–90; Student-Assistant in the Biological Laboratory, Bryn Mawr College.

SARAH WILSON DARLINGTON, ... *Group*, ———, 1890–91.
Glen Mills, Pa. Prepared by Friends' Graded School, West Chester, Pa., and Friends' Central School, Philadelphia, Pa.

LUCY MARTIN DONNELLY, ... *Group, Greek and Latin*, 1889–91.
Brooklyn, N. Y. Prepared by Adelphi Academy, Brooklyn, N. Y.

MARGARET DUDLEY, ... *Group*, ———, 1889–91.
Topeka, Kansas. Washburn College, Topeka, Kansas, 1887–89.

GRACE A. ELDER, ... *Group*, ———, 1889–91.
Philadelphia, Pa. Prepared by Wellesley Preparatory School, Philadelphia, Pa., and by private study.

RUTH EMERSON, ... *Group, Greek and Latin*, 1889–91.
New York City. Prepared by Miss Gibbons' School, New York.

ANNIE CROSBY EMERY, ... *Group, Greek and Latin*, 1888–91.
Ellsworth, Maine. Prepared by Ellsworth Public Schools, and by one year at school in Dresden.

BLANCHE DAVIS FOLLANSBEE, ... *Group*, ———, 1890–91.
Chicago, Ill. Wells' College, 1889–90.

LOUISE OLIPHANT FULTON, ... *Group, Greek and Latin*, 1889–91.
Philadelphia, Pa. Prepared by Mrs. Sutton's School, Philadelphia, Pa., and by R. H. Fulton, D.D.

ELIZABETH GLEIM GUILFORD, ... *Group*, ———, 1890–91.
Lansdowne, Pa. Swarthmore College, 1889–90.

EMMA LYDIA HACKER, ... *Group, Biology and Chemistry*, 1888–91.
Saccarappa, Maine. Prepared by Friends' School, Providence, R. I.

JANE BOWNE HAINES, ... *Group, History and Political Science*, 1887–91.
Cheltenham, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa., and by Miss Creeth of Germantown.

ANNETTE L. HALL, ... *Group*, ———, 1890–91.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by private study.

EDITH ROCKWELL HALL, . . . *Group, History and Political Science*, 1888–91.
Philadelphia, Pa. Prepared by Miss Case's and Miss Hallowell's School, Phila., Pa.

FRANCES BRODHEAD HARRIS, . *Group, History and Political Science*, 1888–9 .
Germantown, Pa. Prepared by Miss Lambdin's School, Germantown, Pa.

MARY HARRIS, ... *Group*, ———, 1890–91.
Germantown, Pa. Prepared by Miss M. E. Stevens' School, Germantown, Pa.

HARRIET FRAZIER HEAD, ... *Group, French and Latin*, 1887–91.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

ELIZABETH CARI HENCH, ... *Group*, ———, 1890–91.
Carlisle, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

MARGARET HILL HILLES, . . *Group, History and Political Science*, 1889–91.
Wilmington, Del. Prepared by the Misses Hebb and by Mr. E. L. Doan, Wilmington, Del.

ELIZABETH FRANCES HOPKINS, ... *Group, French and Latin*, 1889–91.
Thomasville, Ga. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

HELEN ROLFE HOPKINS, ... *Group*, ———, 1889–91.
Baltimore, Md. Prepared by the Bryn Mawr School, Baltimore. Women's College of Baltimore, 1888–89.

MARY ELOISE HOWARD, ... *Group, Latin and Mathematics*, 1889–91.
Norfolk, Va. Prepared by Miss Leach's and Miss Wood's School, Norfolk, Va.

NELLIE MAY HULBERT, ... *Group*, ———, 1890–91.
Elyria, O. Oberlin College, 1887–90.

FRANCES ELIZABETH HUNT, ... *Group, French and German*, 1888–91.
Scranton, Pa. Prepared by School of the Lackawanna, Scranton, Pa., and by Miss Mary E. Stevens' School, Germantown, Pa.

JOSEPHINE JACKSON, ... *Group, German and Latin*, 1889–91.
Richmond, Va. Prepared by St. Timothy's School, Catonsville, Md.

DORA KEEN, ... *Group, History and Political Science*, 1888–91.
Philadelphia, Pa. Prepared by Miss Case's and Miss Hallowell's School, Phila., Pa.

MARGARET D. KELLUM, ... *Group, English and Greek*, 1888–91.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

ABBY KIRK, ... *Group, Greek and Latin*, 1887–91.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa,

JULIA ETHEL LANDERS, ... *Group*, ———, 1889–91.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

MARTHA DIVEN LA PORTE, ... *Group*, ———, 1890–91.
Tyrone, Pa. Prepared by Mountain Seminary, Birmingham, Pa.

ELVA LEE, ... *Group, Greek and Latin*, 1889–91.
Randolph, N. Y. Prepared by Chamberlain Institute, Randolph, N. Y., and by private study.

LUCY LEWIS, ... *Group*, ———, 1889–91.
Philadelphia, Pa. Prepared by Mr. Robert Truitt, Philadelphia, Pa., and by private study.

JESSIE LOUDERBACK, ... *Group*, ———, 1890–91.
New York City. Prepared by Miss Jandon's School, New York.

BELLA MABURY, ... *Group*, ———, 1890–91.
San José, Cal. University of the Pacific, 1884–89.

FAY MARY MACCRACKEN, ... *Group, Latin and* ———, 1890–91.
New York City. Prepared by Miss Graham's School, New York.

MARY LOUISE MACMILLAN, ... *Group*, ———, 1890–91.
Cincinnati, O. Wells College, 1888–90.

MARGARETTA CAMERON MACVEAGH, ... *Group, History and Political Science*, 1890–91.
Philadelphia, Pa. Prepared by Miss Rose Chamberlain, Miss Luella H. Thorne, Miss Edith Child and Miss Jane L. Brownell.

EMILY NORTON MARTIN, ... *Group, Latin and Mathematics*, 1890–91.
Ardmore, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa., and by private study.

MARY ROCKWITH MARTIN, ... *Group,* ———, 1890–91.
Ardmore, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

MARY TAYLOR MASON, ... *Group, History and Political Science,* 1888–91.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

MARY BELLE MCMULLIN, ... *Group, Greek and Latin,* 1889–91.
Philadelphia, Pa. Prepared by Miss Gordon's School, Philadelphia, Pa.

HELEN MIDDLETON, ... *Group,* ———, 1890–91.
Pittville, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

ELIZABETH HÖRNLI MIFFLIN, ... *Group,* ———, 1890–91.
Wayne, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

MARIE LOUISE MINOR, ... *Group, Biology and Chemistry,* 1890–91.
Brooklyn, N, Y. Prepared by the Packer Collegiate Institute, Brooklyn.

HANNAH IRENE MOORE, ... *Group,* ———, 1890–91.
Philadelphia, Pa. Prepared by Miss Cooper's School, Philadelphia, and by private instruction.

LILLIAN VIRGINIA MOSER, ... *Group, French and German,* 1888–91.
Syracuse, New York. Prepared by Syracuse High School, and by private study.

CAROLYN LADD MOSS, ... *Group,* ———, 1890–91.
Ottumwa, Iowa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

NELLIE NEILSON, ... *Group, English and Greek,* 1889–91.
Philadelphia, Pa. Prepared by Miss Cooper's School, Philadelphia, Pa.

ELIZABETH NICHOLS, ... *Group, Biology and Chemistry,* 1889–91.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, Pa.

RACHEL LOUISE OLIVER, ... *Group, Greek and Latin,* 1888–91.
Lynn, Mass. Prepared by Lynn High School and by private study.

HENRIETTA R. PALMER, ... *Group,* ———, 1889–91.
Providence, R. I. Prepared by Providence High School. School of Library Economy, Columbia College, 1887–89. Acting Librarian, Bryn Mawr College, 1890–91.

ETHEL PARRISH, ... *Group, History and Political Science,* 1887–91.
Radnor, Pa. Prepared by Miss Case's and Miss Hallowell's School, Philadelphia, Pa.

GRACE PARRISH, ... *Group,* ———, 1890–91.
Radnor, Pa. Prepared by Miss Case's and Miss Hallowell's School, Philadelphia, and by Miss Florence Baldwin's School, Bryn Mawr, Pa.

GRACE PINNEY, ... *Group, French and German,* 1887–91.
New York City. Prepared by private study.

KATHERINE PORTER, ... *Group, Biology and Chemistry,* 1890–91.
Baltimore, Md. Prepared by Friends' Elementary and High School, Baltimore, Md., and by private study.

LAURETTE EUSTIS POTTS, . . . *Group, History and Political Science,* 1890–91.
Philadelphia, Pa. Prepared by Bellefonte Academy, and by private tuition.

BERTHA HAVEN PUTNAM, . . . *Group, History and Political Science,* 1889–91.
New York City. Prepared by Miss Gibbons' School, New York City.

ESTELLE REID, ... *Group,* ———, 1890–91.
New York City. Prepared by Miss Gibbons' School, New York City, and by Miss Flattery.

ADELINE MAYO RICHARDS, ... *Group,* ———, 1890–91.
Elizabeth, N. J. Prepared by Miss Randolph's School, Baltimore, Md., and by Mr. Young, Elizabeth, N. J.

HARRIET ROBBINS, ... *Group, History and Political Science,* 1889–91.
Wethersfield, Conn. Prepared by High School, Hartford, Conn.

HELEN J. ROBINS, ... *Group, English and Latin*, 1888–91.
Bryn Mawr, Pa. Prepared by Miss Case's and Miss Hallowell's School, Phila., Pa.

AMY CORDOVA ROCK, ... *Group*, ———, 1889 91.
Washington, D. C. Prepared by High School, Washington, D. C., by Miss Mary E. Stevens' School, Germantown, Pa., and by private study.

MILDRED M. ROELKER, . . . *Group, History and Political Science*, 1890–91.
Washington, D. C. Prepared by High School, Washington, D. C.

HELEN KUNKLE ROSS, ... *Group*, ———, 1890–91.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown.

THEODOSIA ROSALIE RUPLI, ... *Group, Greek and Latin*, 1890–91.
Washington, D. C. Prepared by High School, Washington, D. C.

MARY JOHNSON SACKETT, ... *Group, Biology and Chemistry*, 1888–91.
Brooklyn, N. Y. Prepared by Adelphi Academy, Brooklyn, New York, and by private study.

LILIAN VAUGHAN SAMPSON, . . . *Group, Mathematics and Physics*, 1887–91.
Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa.

JANE SCOFIELD, ... *Group, Greek and Latin*, 1886–91.
Sandy Spring, Md. Graduate Mt. Holyoke Seminary, South Hadley, Mass., 1886.

HARRIETT FELL SEAL, ... *Hearer in French and Greek*, 1889–91.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by private study.

MARGARET HILLES SHEARMAN, ... *Group*, ———, 1890–91.
Wilmington, Del. Prepared by The Misses Hebb, Wilmington, Del., and by Miss M. E. Stevens' School, Germantown, Pa.

JENNIE M. STAADEKER, ... *Group*, ———, 1890–91.
Louisville, Ky. Prepared by Girls' High School, Louisville, and by private study.

HELEN R. STAPLES, ... *Group, French and German*, 1889–91.
Dubuque, Iowa. Prepared by Dubuque High School, and by Lasell Seminary, Auburndale, Mass.

HARRIET STEVENSON, . . *Group, Mathematics and Physics*, 1887–89, 1890–91.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis. Ind. Scientific Course, Wellesley College, 1885–86.

GERTRUDE ELIZABETH TAYLOR, ... *Group, Greek and Latin*, 1889–91.
Cambridge, Ohio. Prepared by McDonald Ellis School, Washington, D. C., and by Centenary Collegiate Institute, Hackettstown, N. J.

MARION SATTERTHWAITE TAYLOR, . . *Group, English and Latin*, 1890–91.
Sewickley, Pa. Prepared by Westtown Boarding School and by private study.

MARY LEWIS TAYLOR, ... *Group, Mathematics and Physics*, 1888–91.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

HELEN WHITALL THOMAS, ... *Group, Latin and Greek*, 1889–91.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

SUSAN EVERETT THROOP, ... *Group*, ———, 1890–91.
Worcester, Mass. Prepared by Mrs. Throop's School, Worcester.

UMÉ TSUDA, ... *Student in English and History*, 1889–91.
Tokio, Japan. Teacher in Peeresses' School, Tokio, Japan, 1884–88.

EMILY RACHEL VAIL, ... *Group, Greek and Latin*, 1886–87, 1888–91.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

EDITH LOUISE VAN KIRK, ... *Group*, ———, 1890–91.
Philadelphia, Pa. Prepared by Miss Case's and Miss Hallowell's School, and by private study.

SUSAN FRANCES VAN KIRK, . . *Group, History and Political Science*, 1889–91.
Philadelphia, Pa. Prepared by Miss Case's and Miss Hallowell's School, Philadelphia.

ANNA MARTHA WALKER, ... *Group, Greek and Latin*, 1889–91.
Glen Moore, Pa. Prepared by Darlington Seminary, West Chester, Pa., and by Miss Stevens' School, Germantown, Pa.

ETHEL MCCOY WALKER, ... *Group,* ———, 1890–91.
Washington, D. C. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

EVANGELINE HOLCOMBE WALKER, *Group, Greek and Latin*, 1887–88, 1890–91.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

SUSAN GRIMES WALKER, ... *Group,* ———, 1889–91.
Boston, Mass. Prepared by The McDonald Ellis School, Washington, D. C., and by private study.

MATHILDE WEIL, ... *Group, English and French*, 1887–91.
Philadelphia, Pa. Prepared by Mr. and Mrs. L. M. Johnson's School, Philadelphia, Pa.

EDITH WETHERILL, ... *Group, History and Political Science*, 1888–91.
Philadelphia, Pa. Prepared by Miss Case's and Miss Hallowell's School, Phila., Pa.

AGNES MARY WHITING, ... *Group, Greek and German*, 1889–91.
Springfield, Mass. Prepared by Miss Catharine L. Howard's School, Springfield, Mass.

EMMA STANSBURY WINES, . . . *Special Student in Mathematics*, 1890–91.
Springfield, Ill. Wellesley College, 1889-90.

ELIZABETH WARE WINSOR, . . *Group, Greek and Latin*, 1888–89, 1890-91.
Weston, Mass. Prepared by High School, Winchester, Mass.

MARIAN A. WRIGHT, ... *Group, German and Latin*, 1887–91.
Germantown, Pa. Special Student, Smith College, 1883–84. Prepared by Miss Florence Baldwin, of Bryn Mawr, Pa.

ANNA H. YARDLEY, ... *Group,* ———, 1890–91.
Milford, Del. Prepared by Milford Classical School.

LOUISE S. YOUNG, ... *Group, History and Political Science*, 1890–91.
Philadelphia, Pa. Prepared by Miss M. E. Stevens' School, Germantown, Pa., and by private tuition.

Former Fellows, Graduate Students, and Undergraduates that have not taken their Degrees.

EMILY GREENE BALCH, *Holder of the Bryn Mawr European Fellowship*, 1889–90.
Jamaica Plain, Mass. A.B., Bryn Mawr College, 1889. Collége de France and Sorbonne, 1890-91.

JANE M. BANCROFT, ... *Fellow in History*, 1885–86.
West Stockbridge, Massachusetts. Ph.B., Syracuse University, 1877; Ph.M., 1880; and Ph.D., 1884; Professor of French Language and Literature, Northwestern University, Evanston, Illinois, 1877–85; student in the University of Zürich, 1886–87, and student in the Sorbonne and the Collége de France, 1888.

CORA AGNES BENNESON, ... *Fellow in History*, 1887–88.
Quincy, Illinois. A.B., University of Michigan, 1878; LL.B., 1880; and A.M., 1883.

ELIZABETH MILLER BLANCHARD, ... *Fellow in Mathematics*, 1889-90.
Bellefonte, Pa. A.B., Bryn Mawr College, 1889.

MABEL P. CLARK, ... *Fellow in English*, 1889-90.
New York City. A.B., Bryn Mawr College, 1889, and A.M., 1890. Reader in English, Bryn Mawr College.

KATE MAY EDWARDS, ... *Fellow in Greek*, 1888-89.
Itbaca, New York. A.B., Cornell University, 1888. Instructor in Greek, Wellesley College.

SUSAN BRALEY FRANKLIN, ... *Fellow in Greek*, 1889–90.
Newport, R. I. A.B., Bryn Mawr College, 1889.

KITTY AUGUSTA GAGE, ... *Fellow in Greek*, 1885–86.
Wilton, New Hampshire. A.B., Boston University, 1878; A.M., Cornell University, 1885. Teacher of Classics in the State Normal School, New Paltz, New York.

MARY GWINN, ... *Fellow in English*, 1885–87.
Baltimore, Maryland. Studied at the University of Leipsic, 1879–82, and at the University of Zürich, 1882; graduate student Bryn Mawr College, 1887–88, and Ph.D., Bryn Mawr College, 1888; Associate in English, Bryn Mawr College.

SARAH E. SATTERTHWAITE *LESLIE, ... *Fellow in Greek*, 1886–87.
Marine City, Michigan. A.B., University of Michigan, 1886.

ELEANOR LOUISA LORD, ... *Fellow in History*, 1889–90.
Malden, Mass. A.B., Smith College, 1887. Instructor in History, Smith College.

HELEN L. LOVELL, ... *Fellow in Greek*, 1887–88.
Flint, Michigan. A.B., University of Michigan, 1887. Teacher of Greek and Latin at Girls' Classical School, Indianapolis, Ind., 1889–90.

GERTRUDE H. MASON, ... *Fellow in English*, 1887–88.
San José, California. Ph.B., University of Michigan, 1876; Teacher of English in Petaluma High School.

MARCELLA I. O'GRADY, ... *Fellow in Biology*, 1887–89.
Boston, Mass. S.B., Massachusetts Institute of Technology. 1885; Teacher of Science in the Bryn Mawr School, Baltimore, Md., 1885-87; Demonstrator Biological Laboratory, Bryn Mawr College, 1888-89; Instructor in charge of Biological Department, Vassar College.

HARRIET RANDOLPH, ... *Fellow in Biology*, 1889–90.
Philadelphia, Pa. A.B., Bryn Mawr College, 1889; University of Zürich, 1890–91.

LUCY M. SALMON, ... *Fellow in History*, 1886–87.
Fulton, New York. A.B., University of Michigan. 1876, and A.M., 1883; Teacher of History in the Indiana State Normal School, 1883–86; Associate Professor of History, Vassar College.

HANNAH ROBIE SEWALL, ... *Fellow by Courtesy in History*, 1889–90.
St. Paul, Minn. A.B., University of Minnesota, 1884; A.M., University of Michigan, 1887; Fellow in History, Bryn Mawr College, 1888-89.

EFFIE A. SOUTHWORTH, ... *Fellow in Biology*, 1885–86.
North Collins, New York. S.B., University of Michigan, 1885; Fellow in Biology, Bryn Mawr College, 1885-86, and Student-Assistant in the Biological Laboratory, 1886-87; Assistant Mycologist of the United States Agricultural Bureau, Washington.

ANNE A. STEWART, ... *Fellow in Mathematics*, 1886–87.
West Bay, Nova Scotia. Studied in University College, London, 1880-82; B.Sc., Dalhousie College, Halifax, Nova Scotia, 1886; Teacher of Mathematics in Miss Mary E. Stevens' School, Germantown, Pa.

ELLA C. WILLIAMS, ... *Fellow in Mathematics*, 1885–86.
Watkins, New York. A.M., University of Michigan, 1880; studied under Professor Schwartz, of Göttingen, nineteen months, 1883–85; in residence at Newnham College during the spring term of 1884; Teacher of Mathematics in Miss Moses' School, 647 Madison Avenue, New York City, 1886–87; Teacher in State Normal School, Plymouth, New Hampshire.

EMMA BAIN, ... *English*, 1889–90.
Martinsville, Ind. A.B., Indiana State University, 1889.

JESSIE BREVITT, ... *Chemistry and Physiology*, 1889–90.
Baltimore, Md. M.D., Woman's Medical College, Baltimore, 1889. Lecturer on Chemistry, Woman's Medical College, Baltimore.

JEANNETTE S. BROWN, ... *Greek*, 1886–87.
Graduate Harvard Annex, 1885; Teacher of Greek and Latin, Bryn Mawr School, Baltimore.

* Mrs. Francis Alexander Leslie, 1890.

ANNA B. CARROLL, ... *History and English*, 1888–90.
Wilmington, Ohio. A.B., Wilmington College, 1887. Teacher of English, Friends' School, Providence, R. I.

EDITH DENISE, ... *French and German*, 1889 90.
Burlington, Iowa. B.L., Lake Forest University, 1885.

AGNES EMORY, ... *Greek and Latin*, 1886–87.
Lawrence, Kansas. A.B., University of Kansas, 1884.

MARY H. FREEMAN, ... *Romance Languages*, 1885–87.
Mumford, New York. A.B., Vassar College. 1881, and A.M., 1887; Teacher in the State Normal School, New Paltz, New York.

MARY EASTMAN GALE, ... *Latin and Mathematics*, 1888–90.
Laconia, N. H. A.B., Swarthmore College, 1882. Teacher of Latin in Mrs. E. L. Head's School, Germantown, Pa., and in Miss Baldwin's School, Bryn Mawr, Pa.

LEAH GOFF, ... *Biology*, 1889–90.
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1889. Demonstrator in Biological Laboratory, Bryn Mawr College.

FLORENCE HALL, ... *Gothic, Middle High German and Spanish*, 1888–89.
Swarthmore, Pa. A.B., Swarthmore College, 1880. Teacher of German in Friends' Central School, Philadelphia, Pa.

SUSAN RACHEL HARRISON, ... *Greek and Latin*, 1885–87.
Richmond, Indiana. A.B., Earlham College, 1883.

CAROLINE E. HILLIARD, ... *Chemistry*, 1885–86.
Northboro', Mass. A.B., Smith College, 1883.

ALICE W. JACKSON, ... *History and Political Science*, 1888–89.
Germantown, Pa. A.B., Swarthmore College, 1883.

HELEN HOWARD JEFFRIES, ... *Latin and Political Science*, 1889–90.
Wooster, Ohio. Ph.B., Wooster College, 1889.

MARY A. JOHNSON, ... *Biology*, 1887–89.
New York City. L.B., Smith College, 1885, and A.M., 1888; studied at Newnham College, 1886-87. Holder of Scholarship at the Woman's Medical College, Phila., Pa.

ROSA ELLEN LEWIS, ... *English*, 1888–89.
Oskaloosa, Iowa. S.B., Penn College, Iowa, 1882, and A.M., 1885; Professor of English Literature and History, Penn College, Iowa.

SARAH ELVA LEWIS, ... *English and History*, 1888–89.
Estacado, Texas. S.B., Penn College, 1883; Superintendent of Schools, Estacado.

DOROTHY WILBERFORCE LYON, ... *English*, 1887–89.
Meadville, Pa. A.B., Wells' College, 1887.

GEORGIANA LEE MORRILL, ... *English*, 1888–89.
Germantown, Pa. A.B., Vassar College, 1882, and A.M., 1889.

JULIA BARLOW PLATT, ... *Biology*, 1888–89.
Burlington, Vt. Ph.B., University of Vermont, 1882; Harvard Annex, 1886-88.

SARAH M. POTTER* PAINE, ... *English and History*, 1886–87.
Glens Falls, N. Y. A.B., Wellesley College, 1884.

ANNA ELY RHOADS, ... *Greek*, 1889–90.
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1889; University of Leipsic, 1890–91.

ZILLAH M. SHERMAN, ... *English*, 1887–88.
Ashtabula, Ohio. A.B., Wells' College, 1882. University of Michigan, 1888–89.

ANNA MORSE STARR, ... *Latin*, 1889–90.
Elyria, Ohio. B.L., Ohio Wesleyan University, 1887.

* Mrs. Howard Simmons Paine, 1890.

MARY KINGSLEY TIBBETTS, ... *English*, 1889–90.
Fredericton, New Brunswick. A.B., University of New Brunswick, 1889.

BESSIE C. TODHUNTER, ... *Greek and Latin*, 1889–90.
Wilmington, Ohio. A.B., Wilmington College, 1889.

MARY TREMAIN, ... *English and History*, 1886–87.
Lincoln, Nebraska. S.B., Nebraska State University, 1881.

FLORENCE MEHITABEL WATSON, ... *Latin*, 1889–90.
Northfield, Minn. B.L., Carleton College, 1887. Teacher of Latin and History in the High School, Bristol, Conn.

EMILY F. WHEELER, ... *Modern Languages*, 1887–88.
Rockford, Ills. A.B., Northwestern University, 1875, and A.M., 1880.

ELLEN C. WRIGHT, ... *English and Latin*, 1888–89.
Wilmington, O. A.B., Wilmington College, 1875. Professor of English, Wilmington College.

GERTRUDE ALLINSON, ... *Group, English and German*, 1885–87.
Beverly, N. J., Prepared by Friends' School, Providence, R. I.

ELEANOR ANNE ANDREWS, . . . *Hearer in English and German*, 1889–90.
Hampstead, England. Student at Newnham College, 1879-81.

ETHELWYN MORRILL ATWATER, . . *Group, Biology and Chemistry*, 1887–89.
Millville, N. J. Prepared by Friends' Central School, Philadelphia, Pa., and by private study.

SOPHIA MEAD ATWATER, ... *Group*, ———, 1886–88.
Millville, N. J. Prepared by private study.

ANTOINETTE LOUISE BANCROFT, . *Student in French and German*, 1888–89.
Galesburg, Ill. Special Student, Smith College, 1883–86.

ELIZABETH GRAEME BARBOUR, . . . *Group, English and Latin*, 1888–89.
Richmond, Ky. Central University, Richmond, Ky, 1880–88.

EMMA JOSEPHINE BATTERSBY, . *Group, History and Political Science*, 1886–89.
Bryn Mawr, Pa. Prepared by Wellesley Preparatory School, Philadelphia, Pa.

JOSEPHINE G. CAREY *THOMAS, ... *Student in Biology*, 1885–86.
Baltimore, Md. Prepared by Miss Reinhardt's School, Baltimore, Md.

LUCY EDITH CHASE, ... *Student in Latin and Mathematics*, 1888–89.
Brooklyn, N. Y. Prepared by Packer Collegiate Institute, Brooklyn, N. Y. Teacher of Mathematics, Packer Collegiate Institute, N. Y.

CORA MOTT CHILD, ... *Group, Greek and Latin*, 1887–88.
Chateaugay, N. Y. Classical Course, University of Vermont, 1885–87.

LILIAN DIXON, ... *Student in History and Physics*, 1888–89.
Devon, Pa. Special Student at Wellesley College, 1886–88.

ANABEL DOUGLAS, ... *Hearer in English and History*, 1889–90.
Rochester, N. Y. Prepared by Geneseo Normal School, N. Y.

HELEN ERBEN, ... *Hearer in English and German*, 1887–89.
Radnor, Pa. Prepared by private study.

LYDIA SOPHIA FERGUSON, ... *Hearer in Greek and Latin*, 1888–89.
Belfast, Maine. Prepared by E. R. Humphreys, LL.D., of Boston, and by private study.

SARA GWENDOLEN FOULKE, ... *Hearer in Biology*, 1888–89.
Philadelphia, Pa. Prepared by Mr. and Mrs. Lewis M. Johnson's School, Phila., Pa.

FRANCES BIDDLE GARRETT, . . . *Group, Biology and Chemistry*, 1885–87.
Logan P. O., Philadelphia. Prepared by Miss Lily White's School, Germantown, Pa.

MARY RHOADS GARRETT, ... *Group*, ———, 1885–87, 1889–90.
Rosemont, Pa. Prepared by Miss Rachel Ashbridge's School, Philadelphia.

* Mrs. Henry M. Thomas, 1889.

EMILY CUMMING HOWE, ... *Group, Greek and German*, 1887–89.
Princeton, N. J. Prepared by Mr. J. R. Bishop, of Princeton, N. J.

ANNA HARRIS HOY, ... *Group, History and Political Science*, 1885–87.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

MARY E. HOYT, ... *Group, English and Latin*, 1887–90.
Rome, Georgia. Prepared by Shorter College, Rome, Georgia, and by private study.

ELIZABETH BRINTON JANNEY, ... *Hearer in Greek and Latin*, 1889–90.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by J. W. Fairies, D.D., Philadelphia, Pa.

HATTIE ELIZABETH JONES, ... *Group, English and Greek*, 1888–90.
Amesbury, Mass. Prepared by Oak Grove Seminary, Vassalboro, Maine, and by Miss Case's and Miss Hallowell's School, Philadelphia, Pa.

CAMILLA LEACH, ... *Hearer in English*, 1889–90.
San Francisco, Cal. Prepared by private study.

MARY HUNTER LINN, ... *Group, Latin, Italian and Spanish*, 1887–89.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

ANNIE LAURIE LOGAN, ... *Group, Greek and Latin*, 1889–90.
St. Louis, Mo. Prepared by private study.

GERTRUDE MASON LYNCH, . . *Group, History and Political Science*, 1887–90.
Washington, D. C. Prepared by Girls' Classical School, Indianapolis, Ind.

KATHLEEN R. MACFARLANE, . . *Hearer in Mathematics and Physics*, 1889–90.
Rosemont, Pa. Prepared by private study.

MARY ELIZABETH MILES, ... *Group, Greek and Latin*, 1888–89.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

AGNES LOUISE ORBISON, ... *Group, Biology and Physics*, 1886–88.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

KATE O. PETERSON, ... *Group, Latin and* ———, 1888–89.
Brooklyn, N. Y. Prepared by Packer Collegiate Institute, Brooklyn; A.B., Vassar College, 1890.

FLORENCE RUSHMORE, ... *Group,* ———, 1885–86.
Plainfield, N. J. Prepared by Friends' School, Providence, R. I.

ANNA PEIRCE SHOEMAKER, ... *Group, Biology and Chemistry*, 1887–89.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, Pa.; University of Pennsylvania, 1889-91.

MARGARET ARMSTRONG STEEL, *Group, History and Political Science*, 1886–89.
Port Deposit, Md. Prepared by private study.

ELIZA PULLAN STEPHENS, ... *Group, French and Latin*, 1888–90.
Trenton, N. J. Prepared by Friends' Central School, Philadelphia, Pa., and private study.

LOUISA BRIER STEPHENS, ... *Group,* ———, 1889–90.
Cedar Rapids, Iowa. Prepared by Mr. George J. Brown and Mr. Alonzo Brown.

MARY STEPHENS, ... *Group, Biology and Chemistry*, 1887–90.
Cedar Rapids, Iowa. Prepared by Coe Preparatory School and College, Cedar Rapids, Iowa.

ELEANOR JANE STEVENSON, . . . *Student in German and History*, 1886–87.
Pittsburg, Pa. Graduate of Pennsylvania Female College, 1886.

ANNA VAUGHAN SWIFT, ... *Student in English and Chemistry*, 1887–89.
Wilmington, Del. Prepared by Miss E. D. Fraser's School, Wilmington, Del., and by Mr. W. A. Reynolds, of Wilmington.

EMMA PHILLIPS VAN NORDEN, ... *Group, Greek and Latin*, 1889–90.
New York City. Prepared by The Brearley School, New York City, and by private study.

Annie de Benneville Wagner, ... *Group,* ———, 1888-90.
Germantown, Pa. Prepared by Mrs. Head's School, Germantown, Pa.

Margaret Cooper Whitall, . . *Group, Biology and Chemistry,* 1885-88.
Germantown, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

Mary Grace Thomas *Worthington,
Group, History and Political Science, 1885-87.
Baltimore, Md. Prepared by Mr. Christie, Graduate Student, Johns Hopkins University.

Former Undergraduate Students that have taken their Degree at Bryn Mawr College.

Alice Hopkins Albro, ... *Group, Biology and Chemistry.*
Fredonia, N. Y. Prepared by Fredonia State Normal School, N. Y. A.B., 1890. Teacher of Science, High School, Dunkirk, N. Y.

Alice Eliza Anthony, ... *Group, History and Political Science.*
South Manchester, Conn. Prepared by Friends' School, Providence, R. I. A.B., 1889.

Emily Frances Anthony, ... *Group, History and Political Science.*
South Manchester, Conn. Prepared by Friends' School, Providence, R. I. A.B., 1889.

Emily Greene Balch, ... *Group, Greek and Latin.*
Jamaica Plain, Mass. Prepared by Miss Ireland's School, Boston, Mass. A.B., 1889. Bryn Mawr European Fellow, 1889-90; Sorbonne and the Collége de France, 1890-91.

Catherine E. Bean, ... *Group, English and German.*
San José, Cal. Classical Course. University of the Pacific, San José, 1884-85. A.B., 1889. Teacher of English in the Academic Department of the University of the Pacific, San José.

Elizabeth Miller Blanchard, ... *Group, Greek and Mathematics.*
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa. A.B., 1889. Fellow in Mathematics, Bryn Mawr College, 1889-90.

Mary Miles Blanchard, ... *Group, Biology and Chemistry.*
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa. A.B., 1889.

Edith Child, ... *Group, Greek and Mathematics.*
Newport, R. I. Prepared by Dr. W. S. Child, Newport, R. I.; A.B., 1890.

Mabel P. Clark, ... *Group, English and Greek.*
New York City. Prepared by Miss Gibbons' School, New York City. A.B., 1889. Fellow in English, Bryn Mawr College, 1889-90; A.M., Bryn Mawr College, 1890. Reader in English, Bryn Mawr College.

Julia Cope, ... *Group, Biology and Chemistry.*
Philadelphia, Pa. Prepared by Miss Burnham's School, Northampton, Mass. A.B. 1889. Secretary of Bryn Mawr College.

Helen Cecilia Coale †Crew, ... *Group, Biology and Chemistry.*
Baltimore, Md. Prepared by Miss Pindell's School, Baltimore. A.B., 1889.

Helena Stuart Dudley, ... *Group, Biology and Chemistry*
Denver, Colorado. Massachusetts Institute of Technology, 1884-85. A.B., 1889. Teacher of Chemistry in the Packer Collegiate Institute, Brooklyn, N. Y.

Louise R. Elder, ... *Group, Greek and Latin.*
Philadelphia, Pa. Prepared by Mrs. L. M. B. Mitchell's School, Philadelphia. A.B., 1889.

Susan Braley Franklin, ... *Group, Greek and Latin.*
Newport, R. I. Prepared by Rogers' High School, Newport, R. I. A.B., 1839. Fellow in Greek, Bryn Mawr College, 1889-90.

* Mrs. Thomas K. Worthington, 1888.
† Mrs. Benjamin Crew, 1890.

ALICE ELEANORA GARRETSON, ... *Group, Greek and Latin.*
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1890.

LEAH GOFF, ... *Group, Biology and Chemistry.*
Bryn Mawr, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1889. Demonstrator in the Biological Laboratory, Bryn Mawr College.

ALICE BACHE GOULD, ... *Group, Mathematics and Physics.*
Cambridge, Mass. Prepared by Miss Ireland's School, Boston, Mass, A.B., 1889. Massachusetts Institute of Technology, 1889-90; Newnham College, Cambridge, England, 1890-91.

EMELINE GOWEN, ... *Group, Greek and Latin.*
Mt. Airy, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1890.

ELIZABETH HARRIS, ... *Group, Greek and Latin.*
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1890 ; Fellow in Greek, Bryn Mawr College, 1890-91.

MABEL HUTCHINSON, ... *Group, Greek and Latin.*
Des Moines, Iowa. Classical Course, Penn College, 1884-85. A.B., 1889.

CAROLINE LAWRENCE, ... *Group, History and Political Science.*
Saratoga Springs, N. Y. Art Student, Smith College, 1883-84; Special Student, 1885. A.B., 1889.

MARIAN WILHELMINA MACINTOSH, ... *Group, Greek and Latin.*
Philadelphia, Pa. Prepared by Miss Gibson's School, Philadelphia, Pa. A.B., 1890. Graduate Scholar in Greek, Bryn Mawr College, 1890-91.

MARY MCMURTRIE, ... *Group, History and Political Science.*
Philadelphia, Pa. Prepared by private study. A.B., 1889.

MARGARET M. PATTERSON, ... *Group, Greek and Latin.*
Denver, Col. Prepared by Pension Lacorne, Paris, France, and by Denver High School. A.B., 1890.

MARY GRAFTON PATTERSON, ... *Group, French and German.*
Denver, Col. Prepared by Pension Lacorne, Paris, France, and by private study. A.B., 1888.

CAROLINE ELY PAXSON, ... *Group. French and German.*
New Hope, Pa. Prepared by Miss Lily White's School, Germantown, Pa. A.B., 1890.

ANNA POWERS, ... *Group, Greek and Latin.*
New York City. Prepared by Friends' Central School, Philadelphia, Pa. A.B., 1890. Teacher of Greek and Latin in Mrs. E. L. Head's School, Germantown, Pa.

HARRIET RANDOLPH, ... *Group, Biology and Chemistry*
Philadelphia, Pa. Prepared by private study. A.B., 1889. Fellow in Biology, Bryn Mawr College, 1889-90; University of Zürich, 1890-91.

ANNA ELY RHOADS, ... *Group, Greek and Latin.*
Bryn Mawr, Pa. Prepared by Friends' School, Germantown, Pa., and by private study, A.B., 1889. Graduate student at Bryn Mawr College, 1889-90; University of Leipsic. 1890-91.

ELLA RIEGEL, ... *Group, History and Political Science.*
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia. A.B., 1889.

EDITH F. SAMPSON, ... *Group, Biology and Chemistry.*
Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa. A.B., 1890.

KATHARINE MORRIS SHIPLEY, ... *Group, English and Latin.*
Cincinnati, O. Prepared by Bartholomew English and Classical School, Cincinnati, O. A.B., 1890. Bryn Mawr European Fellow, 1890-91; University of Leipsic, 1890-91.

ALYS WHITALL PEARSALL SMITH, ... *Group, French and German.*
Philadelphia, Pa. Prepared by Miss Lily White's School, Germantown, Pa. A.B., 1890.

EMILY JAMES SMITH, ... *Group, Greek and Mathematics.*
Canandaigua, N. Y. Prepared by Mr. J. H. Lee and Mr. D. L. Satterthwaite of Canandaigua, N. Y. A.B., 1889. Studied at Girton College, Cambridge, England, 1889–90.

ANNE TAYLOR, ... *Group, English and French.*
College Hill, Cincinnati, Ohio. Prepared by Belmont College, College Hill, Ohio. A.B., 1889.

MARGARET CHESTON THOMAS, ... *Group, French and German.*
Baltimore, Md. Prepared by Miss Pindell's School, Baltimore. A.B., 1889.

MARTHA GIBBONS THOMAS, ... *Group, Biology and Chemistry.*
Whitford, Pa. Prepared by private study. A.B., 1890.

LUELLA H. THORNE, ... *Group, Greek and Latin.*
Skaneateles, N. Y. Skaneateles Union School and Academy, N. Y. A.B., 1890.

SOPHIA WEYGANDT, ... *Group, Greek and Latin.*
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1889.

KATHERINE TABER WILLETTS, ... *Group, Greek and Latin.*
New York City. Prepared by Miss Anna C. Brackett's School and by Mrs. Julia J. Irvine, of New York City. A.B., 1890.

Bryn Mawr College.

Introductory Statement.

Bryn Mawr College, situated at Bryn Mawr, Pennsylvania, ten miles from Philadelphia, was endowed by Dr. Joseph W. Taylor, of Burlington, New Jersey, who proposed to found an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education that are so freely offered to young men." The site of the college was purchased and the buildings were begun during the lifetime of the founder, who died in 1880. In the same year the college was incorporated by the authority of the State of Pennsylvania, and invested with power to confer degrees. A circular of information was issued by the Trustees in 1883. A President and a Dean of the Faculty were elected in the spring of 1884. During the remainder of the year 1884 plans were matured and appointments made in the Faculty; in the autumn a second circular of information was issued, and an office at which to receive applications was opened in Philadelphia. The courtesy of the presiding officers and instructors of existing universities and colleges facilitated an acquaintance with the prevalent collegiate systems; and the domestic organisation of the women's colleges, Vassar, Smith, and Wellesley, received careful consideration. To the Johns Hopkins University acknowledgment is especially due, since from it has been borrowed the system of major and minor electives in fixed combination. In the spring of 1885 the first program was issued, and the college opened for instruction in the following autumn with forty-four students.

Admission

Three classes of persons will be admitted to the lectures and class-work of the college:—graduate students, undergraduate students, and hearers.

Graduate Students.

Graduate students must have presented a diploma from some college of acknowledged standing. They may pursue the ad-

vanced or graduate courses offered by the college, although the instructors in the several departments may require of them certain introductory or auxiliary studies; they are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations, from the instructors. Their needs will be considered in the arrangement of new courses of lectures.

Fellows. The most distinguished place among graduate students will be held by the Fellows. Five Fellowships are awarded annually —one in Greek, one in English, one in Mathematics, one in History and one in Biology. They are awarded as an honor and are intended to be an indorsement of previous attainments; they entitle the holder to free tuition, a furnished room in the college buildings, and the sum of three hundred and fifty dollars yearly.* They are open to graduates of Bryn Mawr College, or of any other college of good standing. No one may compete that has not a college degree or a certificate of prolonged study under well-known instructors; and, generally speaking, the Fellowship will be given to the candidate that has studied longest or whose work affords the best promise of future success. All applications should be made as early as possible, and must be made by the 15th of April preceding the year for which the Fellowship is desired. Blank forms will be forwarded to the applicant. A definite answer will be given within four weeks from the last date fixed for application. The holder of a Fellowship is expected to show, by the presentation of a thesis, or in some other manner, that her studies have not been without result. All Fellows may study for the degree of Doctor of Philosophy, the Fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts. Those that continue their studies at the College after the expiration of the Fellowship, may, by vote of the Trustees, receive the rank of Fellows by Courtesy.

Undergraduate Students. Undergraduate students must have fulfilled the requirements for matriculation. The studies leading to the degree of Bachelor of Arts are stated on page 25. Those students that do not wish to study for a degree are required to enroll themselves as

Special Students. special students; they will, nevertheless, in the event of a change of plan be credited with such of their studies as may

* Board will be charged at the regular college rates of $150 for the scholastic year.

have coincided with the studies leading to a degree. All special students must have passed the examination for matriculation. Attention is called to the fact that the Group system enables all candidates for a degree to specialise in one or more subjects.

Hearers.

Hearers will be excused from passing the matriculation examination: but they will be strictly distinguished from matriculates, and will not be entitled to reside in the college. They must be women of at least twenty-five years of age, and must furnish proof that they have at some time pursued the studies included in the matriculation examination. They must satisfy the several instructors that they can profit by the courses that they desire to follow, and their admission to recitations, examinations, and laboratory exercises, will depend on the express consent of the instructor in charge. Hearers differ moreover from special students in that they are not recognised by the college, and can receive only such certificates of collegiate study as may be given them by the several instructors. They cannot receive degrees.

Examination for Matriculation.

The examination for matriculation must be taken by all that wish to pursue their studies at the college, either as candidates for a degree or as special students.* The examination for matriculation will also be open to those that wish to take it as a test of proficiency in elementary studies, but have no intention of entering the college.

Candidates may divide the examination between two successive years; if, however, more than one calendar year and the summer recess elapse between the two parts of the examination, the first part of the examination must be repeated.

Blank forms of application for admission should be obtained from the President.

* But candidates that present a certificate of honorable dismissal from some college or university of acknowledged standing, or candidates that have passed the Harvard University examinations for women held in Cambridge, New York, and Cincinnati will be admitted, whenever the examination has covered the same or equal ground in the subjects required for matriculation in the college. For regulations concerning "hearers," see above.

The following subjects in the Harvard University examinations for women are suggested as equivalents: All the "elementary studies" except one language (which may be German *or* French *or* Greek, but must not be Latin), and the "advanced studies" in the three languages chosen; Latin composition; and, if Greek be taken, Greek composition. The "elementary studies" in Latin, Greek, French or German will not be accepted as a substitute for any part of the examination in these subjects, unless supplemented by the "advanced studies."

In no other cases will certificates be accepted.

Examinations are held in June and September of every year at Bryn Mawr College; and in June of every year, examinations are held also in Baltimore. Examinations may also be held in June, by request, in Germantown, Boston, Cincinnati, California, and in London *or* Paris, and will be conducted by the Honorary Corresponding Secretaries, who will also answer enquiries in regard to the examinations or the College.

Tabular Statement.—All candidates for matriculation *must* be examined in the following three groups:

I.	II.	III.
Mathematics { (Arithmetic, Algebra,) 2. Plane Geometry, 1.	*Latin* { (Grammar and Composition, Cæsar and Cicero,) 2. Virgil and sight reading, 1.	History, 1. English, 1. Science, 1.

All candidates for matriculation *must* be examined in one of the following groups:

IV.	IV.	IV.
Greek { Gram. and Comp., Xenophon, } 2. *and* Iliad and sight reading, 1. *French* { Grammar, Prose, Poetry, } 3.	*Greek* { Gram. and Comp., Xenophon, } 2. *and* Iliad and sight reading, 1. *German* { Grammar, Prose, Poetry, } 3.	*French* { Grammar, Prose, Poetry, } 3. *and* *German* { Grammar, Prose, Poetry, } 3.
or	*or*	

The candidate *may* be examined in the following subjects, and if not examined, must pursue them in college:

Advanced Mathematics { Solid Geometry, Plane Trigonometry.

A fourth language, { *Greek* (as above) *or* *French* (as above) *or* *German* (as above).

The subjects in which the candidate for matriculation *must* be examined are divided, for convenience of marking, into fifteen sections. It will be observed that each language is counted as three sections. Groups I., II., and III. contain three sections each; group IV. contains six sections. The figures attached to the subjects show the number of sections contained in each subject; where a bracket precedes the figure, the subjects enclosed by the bracket cannot be separated in the examination. Should the candidates pass in fewer than three sections in the first division of the examination, the entire examination must be repeated; but the three sections need not, except where this is indicated by the brackets, belong to one and the same group. Solid Geometry and Trigonometry cannot be substituted for any part of the fifteen sections.

Mathematics. *I.* **Mathematics.**—(1) and (2) *Arithmetic and Algebra.* (3) *Plane Geometry.*

The examination in Algebra will comprise Elementary Operations; Quadratic Equations; Ratio; Proportion; Variation; Arithmetical and Geometrical Progressions. A part of the paper will be devoted to problems in Algebra and Arithmetic, those in Arithmetic being simple practical questions in Decimals, Percentage, Interest, and Proportion; in these Algebraical Symbols and Operations may be used to any extent.

Lock's Arithmetic (*American Edition*), C. Smith's Elementary Algebra, and Lock's Trigonometry for Beginners [Macmillan] are recommended.

All candidates that do not, in addition to the above, present *Solid Geometry* and *Trigonometry* must pursue these branches in the college and pass an examination in them before receiving a degree. It is especially recommended that those intending to elect mathematical courses should pass the entire matriculation examination in mathematics. These candidates are advised to confine themselves to Algebra ; Plane Geometry of the straight line and the circle ; Solid Geometry and Trigonometry. More benefit will be derived from a thorough acquaintance with the pure geometrical methods, than from a little knowledge of Analytical Geometry.

Students whose matriculation examination has included either Solid Geometry, or Trigonometry, or both, will be credited with the time which others must subsequently spend upon these studies.

II. **Latin.**—(1) *Grammar and Composition.* (2) *Cæsar*, Gallic War, Books I.–IV. (or, if desired, *Ovid*, Metamorphoses, two thousand lines). *Cicero*, seven orations, including the four against Catiline. (3) *Virgil*, Æneid, Books I.–VI. (or the Eclogues and five books of the Æneid). *Latin.*

There will be questions testing the candidate's practical knowledge of grammar, including prosody, and translation of English into Latin.

The candidate will be expected to translate at sight easy passages, with due allowance for unusual words.

Equivalents will be accepted to some extent, but all candidates must have read (*a*) Cicero, at least four orations, (*b*) Virgil, at least three books of the Æneid.

The so-called Roman method of pronunciation, as explained in Allen and Greenough's Latin Grammar, is recommended.

As many schools are introducing the "natural method" as a substitute for thorough grammatical training, attention is called to the fact that special stress will be laid on an accurate and ready knowledge of grammatical forms. A knowledge of paradigms and parts of irregular verbs will be insisted upon.

The examination in Latin may be divided in the following manner only : (*a*) Grammar, Composition, Cæsar, and Cicero ; (*b*) Virgil and sight reading. Candidates are advised, whenever possible, to try the whole Latin examination at one time.

III. **History.**—(1) The outlines of the History of England and the United States ; *or* the outlines of the History of Greece and Rome. *History.*

Johnston's History of the United States, and The United States : its History and Constitution ; Ransome's History of England, *or* Gardiner's English History for Schools : Oman's History of Greece (Longman's, N. Y.) ; Leighton's History of Rome, *or* Allen's History of the Roman People are recommended.

English.—(1) The candidate will be required to write a short English composition, correct in spelling, grammar, punctuation, and general arrangement, and to correct specimens of bad English. *English.*

In 1891 the subject of the composition will be taken from one or more of the following works : *Shakespeare*, Julius Cæsar and As You Like It ; *Chaucer*, The Clerk's Tale ; *Ruskin*, Sesame and Lilies ; *Austin Dobson*, Eighteenth Century Essays.

In 1892 candidates must be familiar with *Shakespeare*, Macbeth and The Tempest ; *Chaucer*, The Knight's Tale ; *Milton*, Comus ; *Lamb*, Essays of Elia.

The books recommended (for the years 1891 and 1892), by the Commission of Colleges of New England, will be accepted as equivalents.

Candidates are required to be familiar with the subject-matter of these works. Much stress will be laid on an intelligent knowledge of the elements of English composition and grammar, and no candidate can be successful in passing the examination without familiarity with the essentials of punctuation and arrangement. Abbott's *How to Write Clearly* is recommended as an aid to the knowledge of correct arrangement.

Science. **Science.**—(1) The elements of one of the following sciences:—Physics, *or* Chemistry, *or* Botany, *or* Physiology, *or* Physical Geography.

Gage's Physics, Remsen's Introduction to the Study of Chemistry (Briefer Course), Bessey's Essentials of Botany, Martin's Human Body (Briefer Course), and Russell Hinman's Physical Geography are recommended.

IV. Two of the following languages:

Greek. **Greek.**—(1) *Grammar and Composition.* (2) *Xenophon,* Anabasis, Books I–IV. (3) *Iliad,* Books I–III.

White's First Lessons in Greek and Jones' Exercises in Greek Prose, or equivalents, are recommended.

There will be questions on grammar suggested by the text, and translation at sight of easy passages from Xenophon and the Iliad, with due allowance for unusual words.

Equivalents will be accepted to some extent, but all candidates must have read (*a*) Homer, at least two books of the Iliad, (*b*) Xenophon, at least two books of the Anabasis or Memorabilia.

The examination in Greek may be divided in the following manner only: (*a*) Grammar, Composition, and Xenophon; (*b*) Iliad and sight reading.

French. **French.**—(3) The examination in French will have three divisions, one to test the candidate's knowledge of pronunciation and ordinary grammatical forms, the other two her power to read at sight ordinary French prose and verse.

For the examination in reading no texts are assigned, the examination being intended to test the candidate's ability to read any ordinary French whatsoever. Candidates preparing for these examinations are advised to acquire as large a vocabulary as possible.

The examination in French cannot be divided.

German. **German.**—(3) The examination in German will be precisely similar to that in French, and will test the candidate's pronunciation, knowledge of ordinary grammatical forms, and ability to read ordinary German at sight.

The examination in German cannot be divided.

The candidate may omit one of the three languages, Greek, French, or German, selecting Greek and French, *or* Greek and German, *or* French and German.

Remarks on Examination for Matriculation.

All subjects potentially included in the examination for admission are regarded by the college as preparatory and non-collegiate. The college course of instruction in mathematics, for example, does not include but presupposes trigonometry; the courses in French and German presuppose a reading knowledge of these languages.

It is therefore to the interest of every student to offer, at entrance, advanced mathematics, and if possible all four languages; remembering that even to fail in such of these examinations as are not strictly obligatory, will not affect the candidate's collegiate standing, and that to pass them successfully would leave her nearly free for elective study under the Group system and for true collegiate work. Great pains have been taken in the organisation of the collegiate courses; and it is not desirable that the time of students within the college should be needlessly withdrawn from these and spent upon preparatory work.

Studies Leading to the Degree of Bachelor of Arts.

No student will be graduated who does not at the time of graduation possess a reading knowledge of French and German and some acquaintance with Latin. In the last semester before graduation, an oral examination will be held to test the candidate's power of reading French and German at sight. The college provides beginners' classes, five times weekly throughout one year, for those students who in the examination for matriculation may have omitted Greek, French or German; but attendance on these classes is not obligatory, the student being free to make good her deficiencies by private reading.

The following course of study must be pursued by every candidate for the degree of Bachelor of Arts.

Required Studies.

English, five hours a week for two years.

Science, or *Science and History*, five hours a week for two years; that is, any one of the major courses in Science, or any two minor courses in Science; or any one of the minor courses in Science, together with one of the minor courses in History, *or* a minor course in Political Science.

Philosophy, five hours weekly for a year.

Group.

Two Major Courses, of five hours weekly for two years each, constituting one of the following "Groups:" Any language with any language; Mathematics with Physics, or Mathematics with Greek or Latin; any science with any science; History with Political Science.

Free Electives.

Free Electives, five hours weekly for a year and a half, to be chosen by the student. It should be observed that a single study may be taken as a Free Elective, without electing the group that includes it. Students wishing to combine Physics with either Chemistry or Biology must take at least a half year of Mathematics as a Free Elective.

Every student is expected to consult the Dean of the Faculty in regard to the details and best arrangement of her various studies, and must register her course of study at the Dean's office before entering upon college work.

The students are not divided into the traditional college classes, nor is there any time set for graduation; in order to pursue a wider course of reading in connection with single subjects, or to attend a greater variety of lectures, the ablest students may choose to defer graduation, and, on the other hand, the usual period of collegiate study may be abridged; personal considerations only will determine the time spent in completing the studies required for a degree. Nevertheless, these requirements constitute strictly a four years' course; that is to say, if the usual time given to lectures and class-work be computed at fifteen hours weekly, a student that passed the ordinary

matriculation examination, and availed herself of the preliminary courses of the college on the subjects which that examination did not include, would in all cases require precisely four years.

The Bryn Mawr European Fellowship. The Bryn Mawr European Fellowship will be awarded annually to a member of the graduating class of Bryn Mawr College on the ground of excellence in scholarship. The holder will receive the sum of five hundred dollars, applicable to the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the college.

Studies Leading to a Second Degree. Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may, at their discretion, enroll themselves as candidates for the Degrees of Doctor of Philosophy and Master of Arts. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

The Degree of Doctor of Philosophy. All candidates for the degree of Doctor of Philosophy and Master of Arts must pursue for three years, after having received their first degree, a course of liberal (non-professional) study at some college or university approved by the Faculty, and spend at least two of these years at Bryn Mawr College. They must be examined in two, and may at their discretion be examined in three subjects (the examination being of equal difficulty in either case); and must present a satisfactory dissertation on some topic included in their first or principal subject. They may be required to pursue certain auxiliary studies in connection with the subjects that they have elected; and the degree of Doctor of Philosophy, like that of Bachelor of Arts, will be given to no one who cannot read French and German, or who is wholly unacquainted with Latin and Greek. The dissertation must be printed. The degree of Doctor of Philosophy will in no case be conferred by the college as an honorary degree.

The Degree of Master of Arts. Candidates for a separate degree of Master of Arts, which will be conferred only on graduates of Bryn Mawr College, must reside at the college for at least one year after graduation, and

pursue and pass an examination on a course of liberal study approved by the Faculty.

Residence.

Residence in the college is not obligatory. During the past five years students living in Philadelphia or in the neighborhood of Bryn Mawr have attended the daily lectures and class-work of the college; others, finding it inconvenient to return home every day, have resided in the college for five days of the week.

The college buildings intended for residence contain single rooms and sets of rooms. The halls will accommodate about fifty students, and each hall will be under the care of a lady who will reside in the building. There will be no common refectory, nor any inter-dependence between the halls. Compare the accompanying plans of Merion Hall, Radnor Hall and Denbigh Hall, which the other halls will resemble in the essential parts of their internal arrangement, such as furniture, heating, and light; compare also the general account of the buildings on page 58.

Expenses.

The charge for tuition is one hundred dollars a year, irrespective of the number of courses attended, or of the actual time of attendance. It is the same for undergraduate students, graduate students, and hearers. An additional charge of fifteen dollars a year is made for materials, in every laboratory course.

A special exception will be made in favor of non-resident medical students and physicians, who will be charged for a single course in chemistry or biology fifty dollars, and for two courses one hundred dollars, the laboratory charges being the same for them as for other students. A course is held to be five hours weekly of lectures and class-work throughout the year.

The charge for board and residence will be two hundred and seventy-five dollars a year for each student occupying a single room, and three hundred dollars for each student occupying, together with another student, a set of three rooms, or one of the larger single rooms. Students that remain at the college during the winter and spring vacations will be charged seven dollars, or eight and a half dollars weekly, according to the rooms occupied. The charge for a student occupying a bedroom and private study will be four hundred dollars, and in vacations ten dollars a week.

The charge for board and residence includes all expense of service, heating and light, except open fires and washing. There are open fire-places in nearly all the

studies, but the rooms will be sufficiently heated by steam. A fixed annual charge is made for washing (see the description of Merion Hall, Radnor Hall and Denbigh Hall) when students prefer to have their washing done in the college.

The charge for tuition is accordingly $100 a year, payable in advance.

The charge for residence in the college halls, exclusive of board, is $125, $150 (or in special cases, $175, $250) a year, payable in advance.

The charge for board is $150 a year; one half payable half-yearly in advance.

The charge for board, residence and tuition is, therefore, $375 and $400 (or in special cases $425, $500) a year.

A Students' Educational Fund has been established for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed will be distributed by the college in the form of partial aid, and in most cases as a loan. It will be applied to the assistance of those students only who have attended courses in the college for at least one year.

Three Partial Scholarships of $200 each will be open to members of the Society of Friends that are unable to pay the full charge for tuition and residence. When there are more than three applicants the candidates will be selected by competitive examination; in all cases graduate students will be preferred, and in no case can the scholarship be held by any one that has not passed the matriculation examination with credit. These scholarships will be for one year only, but may be renewed until graduation, when the progress of the student is satisfactory to the Faculty.

INSTRUCTION.

Libraries. The College Library will be as far as possible a library for special study, and is open for the use of the students from eight A.M. to ten P.M. every day. The library takes ninety-five scientific, literary, and philological periodicals and reviews in the English, German, French, Italian and Swedish languages, and the sum of three thousand dollars is expended yearly for books under the direction of the heads of the several collegiate departments. There are at present on its shelves 8443 bound volumes. They are catalogued according to the Dewey system.

The following periodicals are taken by the Library. For convenience of reference they are arranged in alphabetical order.

Academy; Acta Mathematica; American Chemical Journal; American Journal of Archæology; American Journal of Mathematics; American Journal of Philology; American Journal of Psychology; American Journal of Science; American Microscopical Journal; American Naturalist; Andover Review; Anglia; Annalen der Physik und Chemie; Archiv für Anatomie und Physiologie; Archiv für die Gesammte Physiologie; Archivio Glottologico Italiano; Arkiv für Nordisk Filologi; Athenæum; Atlantic

Monthly ; Beiträge der Deutschen Sprache and Litteratur ; Beiträge zur Kunde der Indogermanischen Sprachen ; Bibliotheca Mathematica ; Biologisches Centralblatt ; Bulletin de Correspondence Hellénique ; Centralblatt für Bibliothekswesen ; Century Magazine ; Chemical News; Classical Review ; Contemporary Review ; Coöperative Index to Periodicals ; Deutsche Literaturzeitung; Dialect Note; Edinburgh Review; Electrician ; Englische Studien ; English Historical Review ; Fortnightly Review ; Forum ; Germania ; Göttische Gelehrte Anzeigen ; Harper's Magazine ; Hermes; Historische Zeitschrift ; Indian Antiquary ; Jahresbericht über die Alterthumswissenschaft ; Jahresbericht über die Fortschritte der Chemie ; Johns Hopkins University Studies ; Journal für der reine u. Angewandte Mathematik ; Journal für Practische Chemie ; Journal of the Chemical Society ; Journal of the Microscopical Society ; Journal of Philology ; Journal of Physiology ; Library Journal ; Library Notes ; Literarisches Centralblatt ; Literary News; Litteraturblatt für Germ. u. Rom. Philologie; Mathematische Annalen; Messenger of Mathematics; Mind ; Modern Language Notes ; Mittheilungen der Archæologischen Instituts ; Mittheilungen der Englishen Sprache und Litteratur ; Monatshefte für Chemie ; Nachrichten von der Königlichen Gesellschaft der Wissenschaften ; Nature ; Neue Jahrbücher für Philologie u. Pädagogik ; Nineteenth Century ; Philologische Wochenschrift; Philosophical Magazine ; Political Science Quarterly; Quarterly Journal of Economics; Quarterly Journal of Mathematics ; Quarterly Journal of Microscopical Science ; Quarterly Review; Quellen und Forschungen ; Revue Historique ; Rheinisches Museum für Philologie ; Romania ; Romanische Forschungen ; Science ; Scribner's Magazine : Spectator ; University ; Westminster Review ; Wochenschrift für Klassiche Philologie ; Zeitschrift für Deutsches Alterthum ; Zeitschrift für Deutsche Philologie ; Zeitschrift für Physikalische Chemie ; Zeitschrift für Romanische Philologie ; Zeitschrift für Vergleichende Sprachforschung ; Zoologischer Anzeiger.

In Philadelphia there are the following important libraries :

The *Philadelphia Library*, which contains about 145,000 volumes. The library will at all times be open to the students for consultation ; and students can obtain books on the shares held by the officers of the College. Private subscription, $12 a year for eight volumes, or $10 for nine months.

The *Mercantile Library*, which contains 150,000 volumes. Students can obtain books on the shares held by the College Library. Private subscription, $6.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains 30,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

Laboratories.

The chemical laboratory consists of a lecture-room, a working laboratory, preparation and balance rooms and a chemical library. The supply of apparatus and chemicals has been carefully selected for the purposes of instruction and research, and is increasing from year to year. The chemical library contains besides necessary treatises and reference books several complete sets of chemical journals. A similar suite of five rooms is appropriated to the biological department ; it includes two laborato-

ries, one of which is exclusively botanical. The biological laboratories are equipped with the best (Zeiss) microscopes, microtomes, etc., and are supplied with a small but well-selected set of apparatus for the study of experimental physiology. A separate building containing a physical laboratory and lecture-room was furnished with apparatus and opened in the autumn of 1887. The chemical, biological and physical laboratories are open for students throughout the day.

The Group System. It is much to be desired that all undergraduate students should enroll themselves as candidates for the degree of Bachelor of Arts, and, therefore, that they should understand the precise scope and nature of the studies leading to that degree, and the significance of the Group system. A proper understanding of the Group system is, moreover, essential in order to comprehend the distribution and arrangement of the courses of instruction.

In all departments as yet organised there is a course of five hours a week for two years, called a Major Course. Whenever one year of this course is of such a nature that it can be taken separately, it is marked as a Minor Course. It is required of every candidate for a degree to take two such major courses as shall be homogeneous, or shall complete each other, and major courses which fulfil this condition are designated as Groups. It is meant that the student, under this system, should lay the foundations of a specialist's knowledge; and the Required Studies, namely, English, philosophy and science, or history and science, are intended in part to supplement the Group, and in part to ensure a more liberal training than could be achieved did every student combine elective studies at pleasure. The two years' required course in English includes a general introduction into the study of language. English literature is treated with reference to the comparative history of literature. The required two years in science, or in science and history, permit the student of chemistry and biology to pursue both branches of the biological course, or to take a major course in physics; and they ensure to the student of history and of language, for one year at least, the same kind of instruction and discipline as is received by the scientific student. The one year's course in philosophy is a general introduction into the study of the laws, conditions, and history of thought.

The "Minor Courses" in the following table are known as the Required Studies; the "Two Major Courses" as the Group.

All studies whatsoever fall under one of these heads, Required Studies, Group, or Free Electives.

Tabular Statement:

*Minor Courses (One Year Each).**

1. and 2.	3.	4.	5.	†[6.]	‡[7.]
English. *Two Courses.*	Philosophy.	Science, Physics, or Chemistry, or Biology.	Science or History.	French, or German, or Greek (or Minor Latin).	Solid Geometry and Trigonometry.

Two Major Courses (Two Years Each).

Constituting any one of the following groups:

I.	II.	III.	IV.	V.
Any language with any language.	Any science with any science.	Mathematics with Greek or Latin.	Mathematics with Physics.	History with Political Science.

Free Electives.

Five hours weekly for a year and a half in any subject or subjects the student may elect.

The following combinations of studies are suggested as specimens of a few of the many combinations that may be made by students that are candidates for a degree, yet wish to specialise.

Classics. *As Required Studies,* English, Philosophy, Science (Physics, Chemistry, or Biology), Ancient History, [French or German]. *As a Group,* Greek and Latin. *As Free Electives,* advanced Greek and Latin.

Modern Languages (other than English). *As Required Studies,* English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History [Greek, French, or German]. *As a Group,* French and German, or Latin and French. *As Free Electives,* Spanish or Italian.

English. *As Required Studies,* English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History, [Greek, French, or German]. *As a Group,* French and English, or Greek and English. *As Free Electives,* German or Latin.

Mathematics (with Latin). *As Required Studies,* English, Philosophy, Physics, Ancient History, [Greek, French, or German]. *As a Group,* Mathematics and Latin. *As Free Electives,* Advanced Mathematics.

Mathematics (with Physics). *As Required Studies,* English, Philosophy, Chemistry, Biology, [Greek, French, or German]. *As a Group,* Mathematics and Physics. *As Free Electives,* Advanced Mathematics, or Physics.

* Except 7. (*One-half year.*)

† See page 25, under "Studies leading to the degree of Bachelor of Arts."

‡ See page 23 and page 50, under "Mathematics."

History. *As Required Studies*, English, Philosophy, any Science, any language (Greek, Latin, English, German, French, Italian, or Spanish), [Greek, French, or German]. *As a Group*, History and Political Science. *As Free Electives*, History of German, or of French, Literature.

Science. *As Required Studies*, English, Philosophy, Physics, Botany, [Greek, French, or German]. *As a Group*, Chemistry and Biology. *As Free Electives*, Physics (second year); or advanced work in Biology or Chemistry.

The following combinations might be adopted by those that wish to pursue a major course in History or Science, yet do not wish to elect an historical or a scientific group.

I. *As Required Studies*, English, Philosophy, any Science, Ancient History, [Greek, French, or German]. *As a Group*, any Language with any Language, or Chemistry with Biology or Physics. *As Free Electives*, Modern History.

II. *As Required Studies*, English, Philosophy, Physics, Chemistry, [Greek, French, or German]. *As a Group*, any Language with any Language. *As Free Electives*, second year in Chemistry, or one year in Biology (animal or vegetable).

Since the time of graduation is determined only by the completion of the prescribed course, there is an entire freedom from over-pressure. All matriculated students may receive the degree of Bachelor of Arts when the prescribed course of study has been satisfactorily completed. On the other hand, as is shown by the recognition of special students, it is not required of any one to apply for a degree; and no degree will be conferred unless the course has been completed with credit.

Courses of Study. There will be offered each year a minor, or five-hours' course in Philosophy, and major, or two-year courses, of five hours instruction weekly in the following subjects: History, Political Science, Greek, Latin, English, German, French, Italian, Spanish, Mathematics, Physics, Chemistry, and both branches of Biology.

Graduate courses are offered in Sanskrit and Indo-European Philology, Greek, Old French, Italian, Spanish, and other Romance Languages, Gothic and Teutonic Philology, Norse, Old High German, Middle High German, Old Saxon, Anglo-Saxon, English Literature, Celtic, History, Mathematics, Chemistry, Political Science, and Biology.

Preliminary Medical Course. The attention of medical students, or those looking forward to the study of medicine, may be called to the facilities offered by the scientific laboratories. The value of a practical knowledge

of biology and chemistry as preliminary or accessory to the professional study of medicine is generally recognised. Through the courtesy of the Woman's Medical College of Pennsylvania, and the Woman's Medical College of the New York Infirmary, allowance will be made in their professional courses for work carried on at Bryn Mawr in the scientific laboratories. Students of Bryn Mawr College that have completed major courses in chemistry and biology will be released from the first year's, or primary, examination in these colleges, and from laboratory practice in chemistry and biology.

Courses in Language and Literature.

The courses in language and literature are meant, first of all, to be complete in themselves, and extensive enough to meet the needs of special students, and secondly, to facilitate the study of comparative philology or of comparative literature. Whenever it has been practicable, as in all the modern languages, one-half of the major course has been devoted to strictly linguistic studies, and the other half to the history of literature. In the major courses in Greek and Latin, the customary text-reading will be supplemented by lectures on the history of literature; the advanced course in Greek will ultimately be constructed on the model of a major course, one year being devoted to comparative philology and Sanskrit, and one to literary studies and the reading of difficult texts. Courses of parallel reading will be required of all students of language and literature, precisely as laboratory work is required of the students of chemistry or biology; these courses are intended to acquaint the students with the works of numerous authors, and it is especially hoped that students of Greek and Latin will, by this means, accustom themselves to read these languages constantly and without assistance.

The courses in ancient and modern languages will be of equal difficulty, and will be placed on a footing of equality. The traditional separation between ancient and modern languages has been disregarded, because, although strictly classical students may always be inclined to combine Greek and Latin, there is, nevertheless, no modern literature of which the study may not fitly be preceded, or supplemented, by the study of Latin or Greek.

Lectures.

It is the object of the lectures to give a clear and succinct statement of facts and principles; to enumerate and criticise

with frankness hand-books, authorities, and editions; to touch upon minor or far-lying points with such distinctness as may enable the student to investigate them intelligently at some future day; to bring the student's knowledge down to date, and to inform her, step by step, what things have been definitely ascertained and what things remain to be investigated. It is intended that the notes taken on these lectures, in addition to their immediate practical use, shall be of lasting value for reference, and be the starting-point, or at least the schedule, of studies to be undertaken subsequently. Every isolated student knows how difficult it is to be initiated into the modern scholastic movement otherwise than orally; and, therefore, in addition to the lectures, the several instructors will appoint certain hours in which the students may consult them freely.

The lectures will be accompanied by class-work, and by frequent examinations; they will be strictly special, not popular.

The Professors or Associates appointed are the recognised heads of their departments, and only such instructors have been chosen as are qualified to direct both graduate and undergraduate work.

Courses of Instruction.

The following undergraduate and graduate courses are offered in the year 1890–91:

Greek.

The instruction in Greek is under the charge of Dr. Edward W. Hopkins, Associate Professor of Greek, Sanskrit and Comparative Philology; Dr. Paul Shorey, Associate Professor of Greek and Latin; and Dr. Herbert Weir Smyth, Associate in Greek and Latin. The instruction offered in Greek and Sanskrit covers twenty-four hours of lectures and recitations weekly, and includes five hours a week of elementary work, ten hours a week of undergraduate major and minor work, four hours weekly of post major work, open only to graduates and to undergraduates that have completed the major course in Greek; and five hours weekly of graduate work.

The courses are as follows:

Beginners' Course.

A course of five hours weekly throughout the year, under the direction of Dr. Smyth, is provided for those students who may wish to study Greek, but whose examination for matriculation did not include it. Students that desire to continue the study of Greek are expected to read more Greek than is required of the other students, in order that in the ensuing year they may pass the entrance examination and enter upon the first year of the major course. Students that wish may substitute for this course the minor, or first year's course in Latin. Either the Beginner's Course in Greek or the Minor Course in Latin, is required of candidates for the degree of Bachelor of Arts, that have not passed the matriculation examination in Greek.

Major Course.

FIRST YEAR.
(*Minor Course.*)

1*st Semester.*

Lysias, *Selections*, Dr. Hopkins.	*Twice weekly.*
Odyssey, *Selections*, Dr. Smyth.	*Twice weekly.*
(May be taken as a Free Elective.)	
Greek Prose Composition, Dr. Hopkins.	*Once weekly.*
Private Reading, Xenophon, *Memorabilia.*	

2*nd Semester.*

Herodotus, VIII., 1–90, Dr. Smyth.	*Twice weekly.*
Plato, *Apology* and *Crito*, Dr. Hopkins.	*Twice weekly.*
Greek Prose Composition, Dr. Hopkins.	*Once weekly.*
Private Reading, Andocides, *Mysteries.*	

SECOND YEAR.

1*st Semester.*

Lectures on the History of Greek Poetry, Dr. Hopkins.	*Twice weekly.*
Sophocles, *Antigone*, Dr. Smyth.	*Twice weekly.*
Æschylus, *Prometheus*, Dr. Hopkins.	*Once weekly.*
Private Reading, Euripides, *Medea.*	

2*nd Semester.*

Lectures on the History of Greek Prose, Dr. Shorey.	*Twice weekly.*
Demosthenes, *De Corona*, Dr. Hopkins.	*Twice weekly.*
Aristophanes, *Birds*, Dr. Hopkins.	*Once weekly.*
Private reading, Plato, *Phaedo.*	

In 1891–92, in the Major Course, Dr. Hopkins will read Euripides, *Selections*, instead of Æschylus, *Prometheus.*

The private reading for the Major Course will be Æschylus, *Prometheus*, and Plato, *Phaedo.*

The usual second year's work of the Major Course may be divided so as to cover a period of two years; but the lectures on literature must be taken, and the reading course of two hours must, if elected, be taken for both semesters.

The first year's work may not be divided.

Examinations on the courses of private readings will be held at the end of each semester.

Group: Greek with any language, or with Mathematics.

POST MAJOR.

Post Major Courses. Post Major courses are offered to those that have completed the Major Course; they may also be taken by graduate students.

1st Semester.

Rapid reading of Plato, *Republic*, Dr. Shorey.	*Twice weekly.*
Pindar, *Selections*, Dr. Shorey.	*Once weekly.*
(This course may not be given in 1891–92.)	
Theocritus, *Selections*, Dr. Hopkins.	*Once weekly.*
Aristophanes, *Clouds*, Dr. Hopkins.	*Once weekly.*
Demosthenes, *Olynthiacs and Philippics*, Dr. Smyth.	*Twice weekly.*
(Attic Orators will be substituted in the year 1891–92.)	
Prose Composition, Dr. Smyth.	*Once fortnightly.*
Lectures on Comparative Philology, Dr. Hopkins.	*Once weekly.*
(Beginner's Sanskrit will be substituted in 1891–92.)	

2nd Semester.

Rapid reading of Plato, *Republic*, Dr. Shorey.	*Twice weekly.*
Pindar, *Selections*, Dr. Shorey.	*Once weekly.*
(This course may not be given in 1891–92.)	
Lucian and Pausanias, *Selections*, Dr. Hopkins.	*Once weekly.*
Æschylus, *Oresteia*, Dr. Hopkins.	*Once weekly.*
Demosthenes, Dr. Smyth.	*Twice weekly.*
(For Demosthenes, Euripides will be substituted in 1891–92.)	
Prose Composition, Dr. Smyth.	*Once fortnightly.*
Lectures on Comparative Philology, Dr. Hopkins.	*Once weekly.*
(Beginner's Sanskrit will be substituted in 1891–92.)	

Graduate Courses. Advanced courses in Greek are provided for graduate students. These courses will be varied from year to year, according to the needs of the students and at the discretion of the instructors, so that graduate students may attend them for more than two semesters.

The Post Major courses are open to graduate students.

A large part of the work expected of graduates will consist of reading, under direction of the department, and reports of works thus read will from time to time be required of the student.

GRADUATE COURSE.

1st Semester.

Lectures on Comparative Philology, Dr. Hopkins.		*Once weekly.*
Sanskrit Grammar, with selections from Lanman's Reader, *or* Drama, *Selections*,	Dr. Hopkins.	*Once weekly.*
Æschines and Demosthenes, *On the Crown*,	Dr. Hopkins.	*Once weekly.*
Melic Poets, Dr Smyth.		*Twice weekly.*
(In 1891-92 Homer will be substituted for this course.)		

2nd Semester.

Philological Seminary, Dr. Hopkins.	*Once weekly.*
Selections from the Rig Veda, Dr. Hopkins.	*Once weekly.*
Æschylus, *Eumenides*, Dr. Hopkins.	*Once weekly.*
Dialects, Dr. Smyth.	*Twice weekly.*

(In 1891-92, Homer (continued) and Aristotle will be substituted for this course.)

Latin.

The department in Latin is under the charge of Dr. Paul Shorey, Associate Professor of Greek and Latin, and Dr. Gonzalez Lodge, Associate in Latin. The instruction offered covers eighteen hours of lectures and recitations weekly, and includes ten hours a week of undergraduate (major and minor) lectures, five hours weekly of post-major work, open only to graduates and to undergraduates that have completed the major course in Latin; and three hours weekly of graduate work.

FIRST YEAR.
(*Minor Course.*)

Major Course.

1st Semester.

Horace, *Selections*, Dr. Shorey.	*Twice weekly.*
(May be taken as a Free Elective.)	
Sallust, *Catilina*, Livy, *book XXI*, Dr. Lodge.	*Twice weekly.*
(In 1891-92 an oration of Cicero will be substituted for Sallust, *Catilina*.)	
Latin Prose Composition, Dr. Lodge.	*Once weekly.*
Private Reading, Virgil, *Æneid VII., VIII.*	

2nd Semester.

Horace (continued); Virgil, *Selections*, with lectures on the poetry of the Augustan age, Dr. Shorey.	*Twice weekly.*
(May be taken as a Free Elective.)	
Livy, *book XXI.* (continued); *book XXII.*, Dr. Lodge.	*Twice weekly.*
Latin Prose Composition, Dr. Lodge.	*Once weekly.*
Private Reading, Virgil, *Æneid IX., X.*	

SECOND YEAR.

1st Semester.

Lectures on Latin Literature, Dr. Shorey.	*Once weekly.*
Juvenal, *Selections*, Dr. Shorey.	*Once weekly.*
Tacitus, *Germania*, *Agricola*, Annals, *book I.*, Dr. Lodge,	*Twice weekly.*
Latin Prose Composition, Dr. Lodge.	*Once weekly.*
Private Reading, Pliny, *Selected Letters.*	

2nd Semester.

Lectures on Latin Literature, Dr. Shorey.	*Once weekly.*
Catullus and Martial, Dr. Shorey.	*Once weekly.*

Tibullus, Propertius, Dr. Lodge. *Twice weekly.*
Latin Prose Composition, Dr. Lodge. *Once weekly.*
Private Reading, Cicero, *Selected Letters.*

Group: Latin with any language, or with Mathematics.

Post Major Courses.

POST-MAJOR.

Five hours weekly of *Post-Major* Latin is offered students that may have completed the Major Course in Latin.

1*st Semester.*

Advanced Latin Literature (Rhetoric), Dr. Shorey. *Once weekly.*
(This course may not be given in 1891–92.)
Lucretius, Dr. Shorey. *Once weekly.*
Terence, Critical Study of *Hautontimorumenos*, Dr. Lodge. *Once weekly.*
Rapid Reading of *Andria, Phormio, Adelphi*, Dr. Lodge. *Once weekly.*
Conferences in Latin Periodology, Dr. Lodge. *Once weekly.*

(Opportunity will be given, in connection with this course, for weekly practice in Latin prose composition, and, if desired, it can be elected as one hour in Latin prose composition only.)

2*nd Semester.*

Advanced Latin Rhetoric (continued), Dr. Shorey. *Once weekly.*
Lucretius (continued), Dr. Shorey. *Once weekly.*
Plautus, Critical Study of *Captivi*, Dr. Lodge. *Once weekly.*
Rapid Reading of *Aulularia, Trinummus, Menœchmi*, Dr. Lodge. *Once weekly.*
Lectures on Latin Syntax, *The Subordinate Sentence*, Dr. Lodge. *Once weekly.*

(Opportunity will be given, in connection with this course, for weekly practice in Latn prose composition, and, if desired, it can be elected as one hour in Latin prose composition only.)

Graduate Courses.

GRADUATE COURSE.

Graduate work in Latin is conducted according to the Seminary method. One department of Latin Literature, or one Latin author, is selected as a centre of study. A course of Historical and critical lectures is given by the instructor, and selected passages are made the subject of critical interpretation by the students. An effort is also made to guide the students in the direction of special or original work. Graduate students from other institutions will also find it to their advantage to pursue the advanced courses offered as Post-Major.

Roman Satire (Seminary), Dr. Lodge. *Three hours weekly.*

(The course on Roman Satire will be followed by courses on Roman Comedy and Roman Historiography; these courses will be so arranged as to offer three consecutive years of graduate work in the Latin Seminary.)

English.

The instruction in English is under the direction of Dr. M. Carey Thomas, Professor of English, Dr. Mary M. Gwinn, Asso-

ciate in English, Dr. Charles F. McClumpha, Associate in Anglo-Saxon, and Miss Mabel Parker Clark, A.M., Reader in English. It includes two years of lectures on literature and language required of every candidate for a degree, two years of advanced English, which presupposes as much information as is contained in the required course, and may be elected in combination with the major course in any other language; and graduate courses in English literature, Essay-work, Anglo-Saxon, and Early English.

Required Course.

The required course consists of lectures on literature and language, in which the history of English literature will be regarded as far as possible from the point of view of European literature generally, essay work, and courses of private reading which are meant to familiarise the student with English authors.

Five essays on subjects connected with the history of English literature are required of every student. There will be examination on the private reading.

FIRST YEAR.

1*st Semester.*

Lectures on the English language, Dr. Thomas. *Four times weekly till Xmas.*

Lectures on the history of Anglo-Saxon literature; with an introduction into the study of early Teutonic literature and mythology, Dr. Thomas. *Four times weekly.*

Essay-work, Dr. Gwinn. *Once weekly.*

2*nd Semester.*

Lectures on the history of English literature to the time of Chaucer, inclusive, with an introduction into the study of French mediæval literature, Dr. Thomas. *Four times weekly.*

Essay-work, Dr. Gwinn. *Once weekly.*

SECOND YEAR.

1*st Semester.*

Lectures on the history of English literature from Chaucer to the Restoration, inclusive; with a short account of Italian literature, Dr. Thomas. *Four times weekly.*

Essay-work, Dr. Gwinn. *Once weekly.*

2*nd Semester.*

Lectures on the history of English literature from the Restoration to the present time: with a short account of the literature of France in the 17th and 18th centuries, Dr. Thomas. *Four times weekly.*

Essay work, Dr. Gwinn. *Once weekly.*

Parallel courses of private reading, on which weekly examinations are held, are arranged in connection with the lectures, and the writing of essays will form part of each year's work.

The courses of the first and second year will be given alternately, the first in 1891-92, and the second in 1892-93, and may be attended in reverse order.

Major Course.

The major course in English differs slightly from the other major courses of the college, in that it has been preceded by two years' study, and is

intended for graduate students or for those undergraduate students who are exceptionally anxious to specialise in English. Either year may be taken separately as a Free Elective by students that have completed the required course.

FIRST YEAR.

Language—Minor Course.

1st Semester.

Anglo-Saxon Grammar and reading of Anglo-Saxon texts, Dr. McClumpha.

Five times weekly.

The course in Anglo-Saxon begins with Sievers' Anglo-Saxon Grammar and the prose contained in Sweet's Anglo-Saxon Reader. The poem of Beowulf is read with the class, and portions of Beowulf literature (episodes, armor, customs, etc.) are assigned for special study. The course closes with Zupitza's Reader, which forms the transition to the Early English of the next semester.

2nd Semester.

Early English Grammar and the reading of Early English Texts, Dr. McClumpha. *Five times weekly.*

The course in Early English will include the reading of Morris aud Skeat, *Specimens of Early English, Parts 1st and 2nd*, and selections from Piers Plowman and Wyclif. Great attention will be paid to the pronunciation of Early English, and to the change from Early English into Modern English.

SECOND YEAR.

Literature—Minor Course.

Poetry of the Nineteenth Century, Dr. Thomas and Dr. Gwinn.

Five times weekly.

The year is essentially a year of seminary work and essay-writing.

The authors studied may be varied from year to year. In 1890–91 the authors chosen will be, Matthew Arnold (for prose style), and the poets of the early part of the nineteenth century, Shelley, Byron, Keats, Wordsworth, Coleridge, and Southey. The private reading and essay-writing will be on subjects connected with English literature, but need not be the same for all students. Either year of the English Major may be taken as a Free Elective by students that have completed the two years of required English.

Group: English with any language.

Graduate Courses.

GRADUATE COURSE.

There will be offered each year two distinct graduate courses in English—one in literature and one in language. These courses will be varied from year to year, according to the needs of the students.

Literature. The graduate instruction in English literature will include the direction of private reading and the assignment of topics for investigation.

The Elizabethan and Jacobean Drama, Dr. Thomas and Dr. Gwinn.

Five hours weekly.

The essay-work that accompanies the course on the English drama is the equivalent of three hours weekly.

Language. Beowulf, Dr. McClumpha. *Twice weekly.*

The reading of Beowulf is supplemented by lectures upon its geography, mythology and ethnography. Parallelisms between Beowulf and the Cædmonian and Cynewulfian poems are also investigated by the students.

Cynewulf, *Andreas*, Dr. McClumpha. *Once weekly.*

Special study of Anglo-Saxon Grammar, Dr. McClumpha. *Twice weekly.*

Lectures on Old English Dialects, accompanied by a comparison with West Saxon of the Northumbrian and Kentish documents contained in Sweet's *Archaic and Dialectal Reader*, Dr. McClumpha. *Twice weekly.*

Lectures upon Transition English, with special reference to Layamon and Orm, Dr. McClumpha. *Twice weekly.*

Chaucer, Dr. McClumpha. *Twice weekly.*

Reading of Chaucer and lectures on Early English Dialects, illustrated by selections from authors of Chaucer's time.

Teutonic Mythology, Dr. McClumpha. *Once weekly.*

German.

The instruction in German is under the direction of Dr. Hermann Collitz, Associate Professor of German Literature and Language, assisted by Miss Rose Chamberlin.

Beginners' Class.

A class for beginners in German, under the direction of Miss Rose Chamberlin, five hours weekly throughout the year, is provided, in order that those students whose matriculation examination did not include German may with less difficulty obtain the reading knowledge of it that they must possess before receiving a degree. By great diligence such students may, it is hoped, acquire sufficient knowledge to be admitted, should they desire it, into the Major Course in German.

Conversation Class.

A class for German conversation will meet, in the afternoon or evening, three times weekly throughout the year. It may be attended by any student that has passed the matriculation examination in German.

Major Course.

The Major Course presupposes as much knowledge as is implied by the matriculation examination in this subject. Either the first or second year of the Major Course may be taken as a Minor Course.

First Year.

(Minor Course.)

Lectures.

Lectures on the History of German Literature from Klopstock to the present time, Dr. Collitz. *Twice weekly.*

These lectures will be delivered in German and will treat the great classical authors, as well as the most modern poets and novelists; they are open as a Free Elective to all students that have passed the matriculation examination in German.

Max Müller, *The German Classics* (*2nd Part*), Dr. Collitz. *Once weekly.*

Goethe, *Faust* (*1st Part*), Miss Chamberlin. *Once weekly.*

German Prose Composition, Miss Chamberlin. *Once weekly.*

German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which an examination will be held at the end of the year, is as follows: Lessing, *Emilia Galotti;* Goethe, *Götz v. Berlichingen, Iphigenie;* Schiller,

Don Carlos, Braut v. Messina. Götz v. Berlichingen is the private reading for those that elect the course in *Faust* only; *Iphigenia* and *Don Carlos* are to be read in connection with the lectures on literature.

SECOND YEAR.

The History of German Literature from the earliest times to the time of Klopstock, exclusive, *Twice weekly.*

These lectures, which are delivered in German, begin with the account of German civilisation found in classical authors, and include Ulfilas, the time of Charlemagne, the fragments of heathen poetry, the Hêliand, Otfried, the Nibelungenlied, and the Heldenbuch, the time of Wolfram, Gottfried, Hartmann, the Minnesingers and Meistersingers, Sebastian Brandt, Hans Sachs, etc.

Max Müller, *The German Classics* (*1st Part*), Dr. Collitz. *Once weekly.*
Goethe, *Faust* (*2nd Part*), or Schiller, *Wallenstein*, Miss Chamberlin. *Once weekly.*
German Prose Composition, Miss Chamberlin. *Once weekly.*
German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading on which examination will be held during the semester, is as follows: Lessing, *Miss Sara Sampson, Nathan der Weise;* Goethe, *Clavigo, Tasso;* Scheffel, *Ekkehard;* Chamisso, *Peter Schlemihl. Tasso* is to be read in connection with *Faust* or *Wallenstein; Nathan* and *Ekkehard*, with the lectures on literature.

Group: German with any language.

Graduate Courses.

GRADUATE COURSE.

The following graduate courses are offered:

Gothic, Dr. Collitz. *Twice weekly.*
Middle High German Grammar and reading of Middle High German Texts, Dr. Collitz. *Twice weekly.*
Old High German *or* Norse, Dr. Collitz. *Once weekly.*

Celtic and Slavonic.

A Graduate Course in Celtic or in Slavonic is offered by Dr. Collitz, Associate Professor of German.

French.

The instruction in Romance Languages is under the direction of Dr. Thomas M. McCabe, Associate Professor of Romance Languages, assisted by Miss Rose Chamberlin.

Beginners Class. An introductory course of five hours weekly, under the direction of Miss Rose Chamberlin, resembling the introductory course in German, is provided for the convenience of those students who, in their matriculation examination, omitted French.

Conversation Class. Opportunities for oral practice in French will be extended during the course.

Major Course.

Entrance to the Minor Course in French presupposes as much knowledge as is required to pass the matriculation examination in that subject. A very considerable portion of the work in French, as much, indeed, as the knowledge of the students justifies, and not course 4 alone, will be conducted in the French language.

FIRST YEAR.

(*Minor Course.*)

Lectures on the History of French Literature of the 18th and 19th Centuries, accompanied by collateral readings of representative French authors, under direction of the professor in charge, Dr. McCabe. *Twice weekly.*

Critical Readings in French Prose and Poetry, Dr. McCabe. *Once weekly.*

Practical Exercises in French Syntax, Composition, etc., Dr. McCabe. *Once weekly.*

Oral Practice in French; Talks on French Literature, Language, etc., conducted exclusively in French, Dr. McCabe. *Once weekly.*

The collateral private reading on which examinations, at stated intervals, are held, is as follows: Some of the dramas and historical prose of Voltaire, some of the philosophic prose of J. J. Rousseau, as, *La Profession de Foi d'un Vicaire Savoyard*, selections from the prose of Diderot, the comedies of Beaumarchais, the poems of André Chenier, portions of the *Génie du Christianisme* and other works of Chateaubriand, works of Mdme. de Staël in parts; representative works and selections from works of the great Romanticists and other nineteenth century poets and authors, Lamartine, Victor Hugo, Béranger, Alfred de Musset, Alfred de Vigny, George Sand, Balzac: also contemporary prose and dramas. This reading matter is specially selected with a view to representing the literature of the period and to illustrating the subject matter of the lectures.

SECOND YEAR.

(*Major Course.*)

The French Language will be used to a greater extent than in the minor course.

Lectures on French Literature, from its origin to and including the 17th century, accompanied by collateral reading of representative French authors, under the direction of the professor in charge, Dr. McCabe. *Twice weekly.*

Critical Readings and Studies in the Great Masterpieces of 15th, 16th, 17th Centuries, Dr. McCabe. *Once weekly.*

Studies in French Style, Composition, etc., Dr. McCabe. *Once weekly.*

Further Oral Practice, Writing of French Essays, and Talks on various subjects of interest to students of French, conducted exclusively in French, Dr. McCabe. *Once weekly.*

The collateral private reading on which examinations, at stated intervals, will be held, consists of selections from the leading authors of the sixteenth century, Montaigne, Rabelais, from the *Satire Ménippée*, from *Ronsard and the Pléiade*, *Robert Garnier*, and others. An extensive course will be marked out in the classics of the seventeenth century, which will be made as far as possible representative, and will accompany and illustrate the lectures. Corneille, Racine, Molière, Malherbe, Boileau, La Fontaine, Regnier, Pascal, La Rochefoucaud, Mme. de Sévigné, the great pulpit orators, and others, will find a place in the course.

Group: French with any language; *or* French with Italian and Spanish.

GRADUATE COURSE.

Graduate Courses. Post-major and graduate courses in Old French, Romance Literature, and Philology will be offered and adapted to the needs of students.

Italian and Spanish.

The instruction in Italian and Spanish is under the direction of Dr. Thomas McCabe, Associate Professor of Romance Languages.

FIRST YEAR.

(*Minor Course.*)

Major Course. Italian, Dr. McCabe. *Three hours weekly.*

This course consists of a systematic study of the grammar, pronunciation, reading and translation, in order to give the student a practical knowledge of the language.

Spanish, Dr. McCabe. *Twice weekly.*

This course is similar to the course in Italian.

SECOND YEAR.

(*Major Course.*)

Italian, Dr. McCabe. *Three hours weekly.*

In Italian the course will be mainly occupied with the study of the "Divina Commedia" and the "Vita Nuova" of Dante, which will be preceded by readings in the "Sonetti" and the "Canzoni" of Petrarch, and the "Orlando" of Ariosto.

Private readings in more modern authors, as Goldoni, Manzoni, Leopardi, will be carried on under the direction of Dr. McCabe.

Spanish, Dr. McCabe. *Twice weekly.*

In Spanish the plan pursued will be similar to that in Italian. The "Don Quixote" of Cervantes will form the principal subject of study, and, in addition, the principal masterpieces of Lope de Vega and of Calderon.

The private reading will be in modern authors, as Fernan Caballero and Castelar, under same conditions as above.

Group. Italian and Spanish with any language.

Philosophy.

The course in Philosophy, five hours weekly throughout one year, is required of all candidates for a degree, and is educational rather than technical in its aims. An effort will be made to assist the student in co-ordinating the knowledge gained in other courses of study, and in acquiring a sufficient acquaintance with the method and vocabulary of speculative thought to read philosophic books intelligently.

The instruction in Logic, Psychology and history of Philosophy is under the charge of Dr. Paul Shorey. It is a consecutive

course of instruction, and extends over three hours a week through the year.

Although as yet only a minor course in Philosophy has been organised, Dr. Shorey will direct the philosophical reading of graduate students who may wish to take philosophy as one of the secondary subjects required for the degree of Doctor of Philosophy.

In the required course on Philosophy, President Rhoads lectures once weekly on Christian Ethics, and, in 1891–92, Mr. George A. Barton, Associate in Biblical Study and Semitic Languages, will lecture once weekly on the Bible and Biblical Study.

Lectures on Logic, Psychology and the History of Philosophy, Dr. Shorey. ***Required Course.***
Three times weekly.

The elementary instruction in Logic and Psychology will be based upon the text-books of Jevons and Sully, which will be supplemented by lectures to bring out the historic and literary associations of the subject-matter. In the history of Philosophy the chief stress will be laid upon Bacon, Descartes and Locke, but the lectures will present a brief summary of the general history of speculative thought in Western Europe, with copious definite references for students who care to investigate special points. Comparatively little attention will be given to the post-Kantian metaphysics of Germany.

Lectures on Christian Ethics, President Rhoads. *Once weekly.*

In the first part of the course the lectures will treat of the theory of ethics, including an examination of the elements of man's personality as a moral being. The works of Porter, Calderwood, Janet, Martineau and others are referred to, and portions assigned to be read by the class. The applications of moral principles to duty are next considered, especially in the light of Christian ethics. Wayland, Dymond, Dörner and other writers that have treated particularly of duties, are used as books of reference. In the latter part of the course a brief review is given of the chief ethical systems, including some of the most recent.

Lectures on the Origin and Contents of the Books of the Bible, Mr. Barton, *Once weekly.*

Biblical Study and Semitic Languages.

In 1891–92 the instruction in Biblical Study will be under the direction of George A. Barton, A.M. This instruction will include courses upon the origin and literary character of the books of the Bible, and the unfolding of religious truth in them. There will be, also, elective courses in New Testament Greek; and, for graduate students, courses may be added in Hebrew and some of the Semitic languages.

Free Elective Courses.

The History of Israel from the Judges to the fall of Jerusalem, with a sketch of the life of Christ and of Apostolic teaching, Mr. Barton.
Three times weekly.

New Testament Greek, Mr. Barton. *Twice weekly.*

This course will presuppose a knowledge of classical Greek. It will treat of the linguistic peculiarities of New Testament Greek, and be accompanied by a study of the text.

Hebrew Grammar and reading of Texts, Mr. Barton. *Twice weekly.*

GRADUATE COURSES.

(*These two courses will be given alternately, one only being offered in any one year.*)

History and growth of Religious Ideas in Israel, including a view of the New Testament Religious Ideas, Mr. Barton. *Twice weekly.*

Assyrian or Aramaic (including Syriac and Biblical Aramaic), Mr. Barton. *Twice weekly.*

History.

The instruction in history is under the direction of Dr. Charles M. Andrews, Associate in History.

The object of the courses in history is three-fold. Primarily, history is taught for its own sake as a record of the development of humanity, secondarily as a necessary accompaniment of the study of political institutions, and finally as a framework for other forms of research, linguistic, religious, or archæological. The course is planned to develop in the students a readier historical imagination, a critical sense and a consciousness of historical growth, rather than to give them a mere outline of general history. The instruction consists entirely of lectures; references are given for private reading; attention is paid to physical geography, and map-work is required; a part of every hour is devoted to questioning and discussion.

FIRST YEAR.

(*Minor Course.*)

Major Course. *1st Semester.*

Ancient History to the Rise of Macedon, Dr. Andrews. *Five times weekly.*

The institutions and civilisation of Egypt, Chaldea, Palestine, Babylon, Assyria, Phœnicia and Persia, are briefly outlined, in order to make clear the relations of early Greece to the East, what she owed to Oriental influence, and the meaning and importance of Grecian politics, art, letters and philosophy, as contrasted with Oriental civilisation.

2nd Semester.

Ancient History from the beginning of Rome to the later days of the Empire, Dr. Andrews. *Five times weekly.*

This course is a continuation of the last. In general, the aim is to trace the expansion of the early Roman community, and in the connection, Livy's narrative is briefly examined; the growth of custom into law and its later modification; the equalisation

of the Orders; the struggle with Carthage; the agrarian troubles; the overthrow of the Republic and the rise and decline of the Empire. In their proper place will be taken up the growth and extension of the Macedonian Empire, its relations with Rome, and the important character of the Achæan and Ætolian leagues in the final struggle of Greece with Rome.

SECOND YEAR.

(*Minor Course.*)

1*st Semester.*

The History of Mediæval Europe to the Period of the Renaissance, Dr. Andrews. *Five times weekly.*

This course may be taken independently as the required year in Modern History; it may also be regarded as a continuation of the work of the first year. The design is to trace the fall of Rome and the rise of new nationalities; the growth of Frankish power; the empire of Charles the Great; the gradual nationalisation of France and Germany; the growth and influence of the Church; the Feudal System, and the rise of French monarchy; the rapid extension of Mohammedanism and its points of contact with Europe; the struggle between the Papacy and the Holy Roman Empire; the scope and results of the crusading movement.

2*nd Semester.*

From the Period of the Renaissance to the Eighteenth Century, Dr. Andrews. *Five times weekly.*

The lectures trace the growth of the Humanities and the phases of religious change; the broadening of knowledge in letters, geography and science; the extension of commerce and the struggle for privileges and constitutional liberty; the weakening of the Papacy and the failure of the Holy Roman Empire; the spirit of Reformation and the counter measures; the war in the Netherlands; the Thirty Years' War; the territorial expansion of France and the rise of French absolutism. The course is planned as a preparation for the study of political, social and economic movements of the nineteenth century.

Group: History with Political Science.

POST-MAJOR COURSE.

Post-Major Course.

English and American Constitutional History, Dr. Andrews. *Twice weekly.*

English constitutional history is examined as a necessary introduction to the study of American institutions.

GRADUATE COURSES.

Graduate Courses.

Two courses are offered to graduate students in History in addition to direction in private reading and original research.

Historical Definition, Method and Criticism, Dr. Andrews. *One hour weekly.*

(Not given in 1890–91.)

The character of this course is that of an informal lecture and discussion. The treatment is, therefore, rather suggestive than exhaustive. The topics discussed are the definitions, divisions and limits of History; the different classes of historical writing; the relation of History to other sciences; the sources of History, direct and indirect and the methods employed in treating such sources; historical criticism, including the different kinds of evidence, and their treatment, argument, critical analysis, the inductive process, aids to evidence, geography, chronology, etc.

History of the Roman Law, Dr. Andrews. *One hour weekly.*

Law is studied from an historical rather than from a purely legal point of view. The object is rather to observe the steps by which custom and rules of conduct took on legal form; to examine the character of the early family law and its extension beyond the family; the nature of the early constitution of Rome; the Servian reforms; the Twelve Tables; the ancient forms of procedure; the struggle between the Patricians and Plebeians, and their gradual equalisation; the effects of the struggle upon the law; the Prætorian legislation, the Jus gentium, Jus naturale, the influence of the Stoic philosophy, and the Christian religion; the period of the great lawyers and the attempts at codification; final codification by Justinian and the later influence through the barbarian tribes, the Church and the universities. A knowledge of Latin is indispensable for this work.

An additional course in English or American constitutional history is proposed by Dr. Andrews for the next year; this may be taken either as a post-major by the undergraduate students in History or as a regular graduate course by those that have already received their first degree.

Political Science.

The instruction in Political Science is under the direction of Mr. Franklin H. Giddings, Associate in Political Science.

The objects of the courses in political science are, first, to cultivate a scientific habit of thought in regard to all social phenomena whatsoever; and secondly, to lay a basis of sound knowledge for an intelligent interest in public affairs, and for original work or professional studies in economics, law, administration or philosophical sociology. To this end instruction is offered in political economy, including economic history; in the evolution of political institutions, including public law and administration, and in modern theories of sociology. Minor, major and post-major and graduate courses are given each year. The major and post-major courses are combined, the major lectures of any year being different in subject and treatment from those of the year before, so permitting students that desire it to take post-major work by following the major course for two successive years. The lectures are accompanied by constant class work, and by seminary exercises. Private reading is assigned, with the aim of developing independent thinking and research.

Major Course.

FIRST YEAR.
(*Minor Course.*)

1st Semester.

Political Economy, Mr. Giddings. *Five times weekly.*

This is a fundamental course, including a drill in the principles of the classical English Political Economy as the indispensable basis of further study. It is illustrated by the facts of economic history, including the manorial community of the Middle Ages,

follows the growth of industry and commerce, analyses the industrial revolution, 1760–1846, and reviews the economic developments of recent times.

2nd Semester.

Political Institutions, Mr. Giddings. *Five times weekly.*

The aim of this course is to show how political institutions of every description, the world over, have been evolved from a few primary forms. Their development is traced from simple beginnings in tribal society through various transformations, monarchical, oligarchical and democratic, to their complicated forms in modern nations. The theory of legal rights and duties is presented, important definitions are given, and the fundamental principles of Continental, English, and American constitutional law are studied. The course concludes with lectures on methods of administration.

SECOND YEAR, 1890–91.

(Major Course.)

(The lectures of this course are given in alternate years. The course, with some changes, will be given again in 1892–93.)

1st Semester.

Advanced Political Economy, Mr. Giddings. *Three times weekly.*

The special subjects are, Money, Bimetallism, and the Tariff History of the United States.

Administration, Mr. Giddings. *Twice weekly.*

This course defines the nature and province of administration, and deals especially with the civil service and with local and municipal governments in the United States and foreign countries.

2nd Semester.

Advanced Political Economy, Mr. Giddings. *Three times weekly.*

The subjects are, Public Debts, Taxation, and Municipal Economy.

International Law, Mr. Giddings. *Twice weekly.*

SECOND YEAR, 1891–92.

(Major Course.)

(The lectures of this course are given in alternate years.)

1st Semester.

Advanced Political Economy, Mr. Giddings. *Five times weekly.*

The special subjects taken up in this course are, the Labor Question, the Land Question, Socialism, and the relations of the State to property, industry, and the poor.

2nd Semester.

Political Theories, Mr. Giddings. *Five times weekly.*

The leading political theories from Aristotle to Hegel, Mill and Spencer are critically reviewed.

Group: Political Science with History.

GRADUATE COURSES.

Graduate Courses.

Two Graduate Courses are given each year.

Political Economy, Mr. Giddings. *One hour weekly through the year.*

This is a course of advanced theory and method, designed specially for Fellows and graduate students who look forward to original work or teaching. Particular attention

is given to the theoretical work of the Austrian economists. A reading knowledge of French and German is indispensable.

Modern Theories of Sociology, Mr. Giddings. *One hour weekly through the year.*

The lectures on Sociology are intended to accomplish three things, namely; (1) to provoke thought on the question whether a philosophical science of society as an organic whole is possible; (2) to acquaint the student with what has been done already toward the construction of such a science; (3) to apply sociological conceptions and methods to a few chosen sociological problems. Fellows and graduate students expecting to do advanced work in this course must have, besides their equipment in history and political economy, at least a general knowledge of the history of philosophy and some acquaintance with modern biology and empirical psychology. The articles on biology psychology, and ethnography in the Encyclopædia Britannica, are suggested for preliminary reading. A reading knowledge of French and German is requisite.

Mathematics.

The instruction in Mathematics is under the direction of Dr. Charlotte A. Scott, Associate Professor of Mathematics, and Mr. James Harkness, Associate in Mathematics.

The Major Course is a course in pure mathematics, and in the two years the students will be able to gain a fair knowledge of the principal pure mathematical subjects. It is not proposed to include the applications of mathematics to physics, though courses in dynamics may be arranged from time to time when wanted. The points of contact of mathematics with other branches of mental and physical science will be indicated as far as possible throughout the course, special attention being paid to the nature of mathematical reasoning, and to the true relation and mutual dependence of mathematics and physics, in order that students may obtain just ideas of the scope and province of mathematics. The course of lectures on the history of mathematics in the second year is intended to give an outline of the development of the subject from its beginning to 1700 A.D.

Preparatory Course. A Preparatory Course of five hours weekly throughout one semester is designed for students entering the college without a sufficient knowledge of those mathematical subjects that are optional in the entrance examination; the lectures will be adapted each year to the requirements of students taking the course; they will, generally speaking, include solid geometry and trigonometry.

Major Course.

First Year.

(*Minor Course.*)

1*st Semester.*

Analytical Conics, Dr. Scott. *Five times weekly.*

2nd Semester.

First Half.—Algebra, advanced Trigonometry and Theory of Equations, Mr. Harkness. *Five times weekly.*

Second Half.—Elementary Differential and Integral Calculus, Mr. Harkness. *Five times weekly.*

SECOND YEAR.

(*Major Course.*)

1st Semester.

Differential and Integral Calculus, Differential Equations, Mr. Harkness. *Five times weekly.*

2nd Semester.

Curve Tracing, Analytical Geometry of Three Dimensions, Dr. Scott. *Four times weekly.*

History of Mathematics (about sixteen lectures), Dr. Scott. *Once weekly.*

Group: Mathematics with Physics, or Mathematics with Greek or Latin.

POST-MAJOR COURSE.

(1890–91.)

Post Major Course.

Higher Plane Curves, Dr. Scott. *Three times weekly.*

Dynamics, Mr. Harkness. *Twice weekly.*

GRADUATE COURSES.

Graduate Courses.

The lectures in the Graduate Course will be varied from year to year; so that, while each year will be complete in itself, a graduate may, if she wish, attend for more than two consecutive semesters. This course will be open in part as a Free Elective to students that have completed the Major Course in Mathematics, with special permission from the instructor.

1890–91.

Modern Algebra (Seminary), Dr. Scott. *Once weekly.*

Elliptic Functions, Mr. Harkness. *Once weekly.*

Theory of Functions, Mr. Harkness. *Twice weekly.*

Courses of lectures in these subjects, in Modern Geometry, Theory of Numbers, History of Mathematics, etc., and seminary work will be arranged according to the requirements of graduate students taking the course.

Physics.

The instruction in Physics is under the direction of Dr. Charles A. Perkins, Associate in Physics.

The course extends through two years, but in the first year an elementary treatment of all the subjects is given, making a course complete in itself. Lodge's Mechanics and Thompson's

Lessons in Electricity and Magnetism are used in connection with the work of the first semester. In the second semester, Stewart's "Treatise on Heat" forms the basis of work in Heat. The other subjects are given wholly by lectures.

For the first year's course a knowledge of the elements of trigonometry is required. No knowledge of physics is presupposed.

In the second year use is made of differential and integral calculus. Special arrangements will be made by the instructors in the mathematical department to meet the case of students wishing to take this second year's course in physics without electing mathematics.

FIRST YEAR.

(Minor Course.)

Major Course. *1st Semester.*

Mechanics and Electricity, Dr. Perkins.	*Five times weekly.*
Laboratory work.	*Three hours weekly.*

2nd Semester.

Sound, Heat and Light, Dr. Perkins.	*Five times weekly.*
Laboratory work.	*Three hours weekly.*

In the laboratory, the students are first instructed in the methods of accurate measurement of the simple quantities, length, time and weight, and in the laws governing the equilibrium and motion of bodies.

Later, they make determinations of electrical quantities, potential, resistance, capacity, etc.; and problems in heat, sound and light are studied and discussed.

The object of the work is to familiarise the students with the instruments and methods used in physical measurements, with special refereuce to the quantitative laws upon which the science is based. The laboratory is equipped with this object in view, and the apparatus is all of the most modern design.

Among recent additions should be mentioned a small dynamo and steam-engine, an electro-dynamometer, a cathetometer with two telescopes, made by the Geneva Society for the Construction of Physical Apparatus, and a Rowland diffraction grating.

SECOND YEAR.

1st Semester.

Theory of Errors, Mechanics and Electricity.	*Five times weekly.*
Laboratory work.	*Four hours weekly.*

2nd Semester.

Elementary Thermodynamics, Geometrical and Physical Optics.	*Five times weekly.*
Laboratory work.	*Four hours weekly.*

The lectures on Mechanics deal especially with the more important applications to physical problems. Those on Heat and Light consist of an extension of the treatment of the first year, and an endeavor is made to bring the students in contact with the work of original investigators.

In the laboratory work of the second year, more attention is paid to accuracy of measurement than in the first year, and the special problems assigned are adapted as

far as possible to the requirements and wishes of the individual students. Special study is made of the sources and amount of the errors involved in the different operations.

Whenever possible, students will be directed to points of investigation left untouched by previous experimenters, or to the study of new methods of experiment and research.

Group: Physics with Mathematics; Physics with Chemistry; or Physics with Biology.

Chemistry.

The instruction in Chemistry is under the direction of Dr. Edward H. Keiser, Associate Professor of Chemistry, and Dr. Charles C. Blackshear, Instructor in Chemistry.

The courses in chemistry consist of five hours of lectures, or their equivalent, and six hours of laboratory work a week throughout each year. The first year's work, or minor course, forms a general introduction to chemical science. In the second year, or major course, a more detailed study is made of both organic and inorganic chemistry.

First Year.

(*Minor Course.*)

Major Course.

1st Semester.

Introduction to General Chemistry (Lectures), Dr. Keiser.	*Three times weekly.*
Reviews, Dr. Blackshear,	*Twice weekly.*
Laboratory work.	*Six hours weekly.*

The lectures of the first semester are a general introduction to chemistry. The more important properties of the elements and their compounds are considered, and a thorough study is made of the facts upon which the general laws of chemical action are based. The lectures are illustrated by a series of experiments.

The laboratory is open for the first year's students six hours weekly. The laboratory work begins with a series of exercises in manipulation, and in the more frequently occurring chemical operations. The students are taught the use of accurate measuring and weighing apparatus, and made familiar with the calculations employed in quantitative work. Analysis is taught only incidentally, and not as the chief object of the science. While studying the more important properties of the elements and their compounds, considerable attention is devoted to a study of the quantitative relations of the substances with which the students work.

2nd Semester.

General Chemistry (Lectures), Dr. Keiser.	*Three times weekly.*
Reviews, Dr. Blackshear.	*Twice weekly.*
Laboratory work.	*Six hours weekly.*

The lectures and exercises during the second semester are a continuation of the work of the first semester. A thorough study is made of the characters of chemical substances, and the principles of classification are explained. The laboratory work consists of a systematic study of the properties and behavior of the more important elements and compounds, and of a repetition of the more instructive experiments that have been previously performed in the lecture room.

SECOND YEAR.
(*Major Course.*)

1st Semester.

Lectures on Organic Chemistry, Dr. Keiser.	*Three times weekly.*
Lectures on Inorganic Chemistry, Dr. Blackshear.	*Twice weekly.*
Laboratory work.	*Six hours weekly.*

In the lectures on organic chemistry typical compounds are studied in detail; the general relations existing between classes of compounds, as well as the methods of transforming one class into another, are discussed. In these lectures the experimental processes and the reasoning employed in determining constitutional or structural formulas are considered, and an effort is made to trace out the influence which organic investigations have had in developing the general theories of the science, and in enlarging our conceptions of the ultimate constitution of matter. The lectures on inorganic chemistry consist of a detailed description of the properties of the elements and compounds, and include a brief discussion of analytical processes and methods.

The laboratory work is upon the subjects considered in the lectures; great care is taken to avoid a mere mechanical use of analytical tables, the student being encouraged to devise analytical methods without aid, using only the knowledge that she actually possesses.

2nd Semester.

Lectures on Carbon Compounds, Dr. Keiser.	*Three times weekly.*
Lectures on Inorganic Chemistry, Dr. Blackshear.	*Twice weekly.*
Laboratory work.	*Six hours weekly.*

The laboratory work is continued as in the first semester, the greater portion of the course being devoted to Analytical Chemistry. Towards the end of the semester, some of the typical carbon compounds are prepared and studied in the laboratory.

Group: Chemistry with Biology; or Chemistry with Physics.

Graduate Courses.

GRADUATE COURSES.

Opportunities for advanced study and research are provided for graduate students that have already such a knowledge of chemistry as would be obtained by taking the two years of work laid down for undergraduates, and for others who, although not graduates, are competent to follow the advanced courses profitably. The advanced work will consist of exercises intended to give the student a comprehensive knowledge of chemical methods and operations, and of difficult and typical preparations; the students will make researches on assigned topics. Advanced students will be required to become familiar with the literature bearing on their practical work. A knowledge of French and German will therefore be necessary. There will also be lectures from time to time upon selected topics, and upon the more recent researches in organic and inorganic chemistry.

Biology.

The instruction in Biology is under the direction of Dr. Edmund B. Wilson, Professor of Biology, and Dr. Frederic S. Lee, Associate in Physiology and Histology.

The course in Biology may extend through one, two or three years, and is equivalent throughout to five hours of lectures and other class exercises and six hours' laboratory practice a week. The work of the first year (minor course) forms a general introduction to the subject through a broad, comparative study of living things (General Biology). In the second year (major course) the foundation of a special knowledge of animal morphology and physiology is laid. The third year's work (post-major), which is offered only to students of marked aptitude, is devoted to advanced courses in special topics, to the study of current biological literature and to the practical investigation of special problems. A knowledge of the elements of Chemistry and Physics is very desirable for students entering any course in Biology.

Major Course.

FIRST YEAR.

(Minor Course.)

Lectures on General Biology.

Course A, Dr. Wilson. *Three times weekly.*

Course B, Dr. Lee. *Twice weekly.*

Laboratory work. *Six hours weekly.*

It is the object of this course to give the student clear conceptions of the fundamental principles of vital structure and action, the outlines of general classification, and the relations of the biological sciences to one another, and to other branches of science. The laboratory practice is designed to enable the student, as far as possible, to examine for herself the facts discussed in the lectures, to encourage the habit of exact observation, to train the eye and the hand, and to impart a knowledge of methods of practical work.

The general subject is treated in two parallel courses (A and B), which supplement each other and must be taken together. Course A deals especially with the lower forms of life, the relations of plants and animals, and the more general principles of the science. Course B is devoted more largely to the higher forms of animal life, with especial reference to physiology.

The work is designed not simply to teach the elements of Zoology and Botany, as commonly understood, but beyond this to consider plants and animals with constant reference to one another, both in their structure and in their mode of action. Stress is therefore laid on the essential facts of comparative morphology and physiology (General Biology) as illustrated by the thorough study of a few types, rather than on the minutiæ of classification. At the same time, the work is arranged with reference to subsequent special work in Zoology, Botany and Physiology.

This necessarily involves an accurate study of vital phenomena in detail, which alone can form the groundwork of any real discipline in the science. The student is, however, led as far as possible to regard facts as illustrations of more general biological truths, and to estimate the importance of these truths beyond the immediate field of the specialist.

In the first semester the student examines a number of animals and plants, so arranged as to form a natural and progressive introduction to the general principles of Biology. After certain general preliminary studies on familiar and highly organised forms, the student makes a detailed examination of unicellular organisms, and from them proceeds gradually to the complex conditions of structure and function found in

higher plants and animals. In the second semester attention is given mainly to the biology of the higher animals. The course ends with a thorough study of the embryology of the chick.

In the course of the general work of the year attention is given to Elementary Human Physiology, and to Elementary Botany and Plant Analysis; this work varies somewhat in character and extent, according to the needs of the student.

SECOND YEAR.

1st Semester.

General Zoology, Dr. Wilson. *Three times weekly.*

Comparative Anatomy of Vertebrata, Dr. Lee. *Twice weekly.*

Laboratory work. *Six hours weekly.*

These courses extend the work of the first year so as to include a comprehensive survey of the phenomena of animal life. The course in General Zoology comprises a systematic presentation of the more important facts of general morphology, with especial reference to the relationships and classification of animals. The course in Comparative Anatomy is devoted to the morphology of vertebrates, and is designed to serve in part as a study of vertebrate homologies, in part as a preparation for the subsequent study of Animal Physiology and Histology. In the laboratory thorough dissections are made of typical forms, illustrating the leading groups of animals, and sufficient work is required in systematic zoology to teach the student how to name and classify animals, and to learn the relations between species, genera, and the higher groups. Students looking forward to the study of medicine are recommended to devote especial attention to the anatomy of higher vertebrates and to human and comparative osteology.

2nd Semester.

Advanced Physiology and Histology, Dr. Lee. *Three times weekly.*

Laboratory work. *Six hours weekly.*

A knowledge of scientific physiology is here conveyed by a detailed account of the microscopic structure and the mode of working of the higher animal organism. The application of this knowledge to Hygiene, Medicine, and Psychology is indicated.

The chief organs and tissues of the vertebrate body are examined with the microscope, and much practice in the preparation of histological specimens is obtained. The laboratory is equipped with a stock of physiological apparatus, and the fundamental facts of physiology and the methods of physiological inquiry are learned by means of demonstrations and experiments by the students.

Advanced Biology, Dr. Wilson. *Twice weekly.*

In this course the student is introduced to some of the leading questions of theoretical general biology. The first part of the course is devoted to the history of biological discovery, with especial reference to the development of the more important generalisations and theories of the science. The latter part is mainly occupied with a critical analysis of the theory of evolution and with discussions of the broader philosophical problems of biology, such as heredity, variation, adaptation, animal metamorphoses and kindred topics. These lectures vary somewhat from year to year, and are intended to be suggestive rather than exhaustive in character.

Group: Biology with Chemistry; Biology with Physics.

Graduate Courses.

GRADUATE COURSES.

To students that have completed a major course in Biology or that have done an equivalent amount of work, advanced courses are offered in Compara-

tive Anatomy, Physiology and Embryology. These courses consist in part of lectures and recitations, but mainly of practical instruction in the laboratory, supplemented by courses of reading. Special topics may be selected according to the wish or abilities of the student, and pursued with direct reference to original research. In such study students are required to familiarise themselves with the literature of the subject; a knowledge of French and German is therefore indispensable.

Physical Culture.

The health of the students is under the care of Dr. Carolyn C. Ladd Hall, Medical Examiner to the Gymnasium, Miss McNair, Director of the Gymnasium, and Dr. Ida Richardson, a practicing physician, who visits the college every week, and can then be consulted by all the students free of charge.

The gymnasium (see page 58) is open for the use of students from 9 A.M. to 10 P.M. daily. Before admission to the gymnasium each student must be examined by the Director with reference to physical development, strength of heart and lungs, and hereditary tendencies. The exercises prescribed will be strictly individual, varying according to the physical development of the student; their effect will be tested by half-yearly examinations, and great pains will be taken to prevent any over-exertion.

Opportunities for Public Worship.

It was the desire of the Founder that the college should be pervaded by a simple and practical Christianity, and an endeavor will be made to promote this end.

In the vicinity of the college, there are churches of various denominations. Conveyances are supplied to enable students to attend the more distant places of worship, including the Friends' Meeting. There will be daily morning worship in the college.

COLLEGE BUILDINGS.

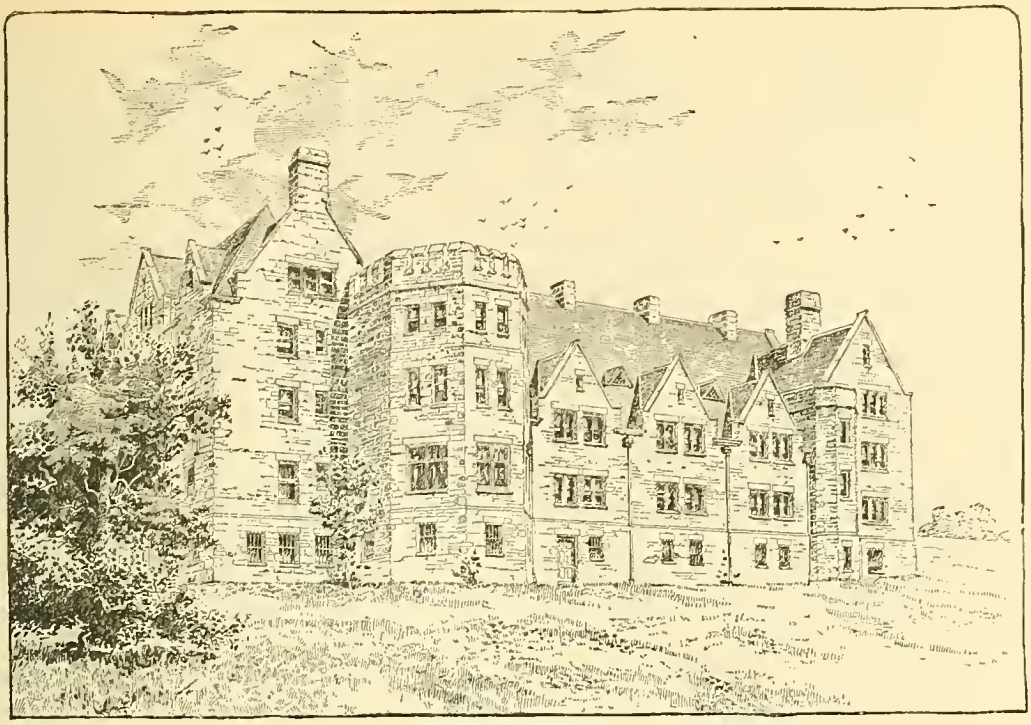
The college buildings are situated ten miles west of Philadelphia, on the Pennsylvania Railroad, a quarter of a mile from the Bryn Mawr Station; the neighboring country is agreeable and very healthful, and towards the west there is a fine prospect of hills. The college grounds cover forty acres, and include planted lawns and tennis courts; they are surrounded by private villas.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains the lecture-rooms and laboratories, and the offices of administration. It is the wish of the Trustees to transfer the scientific departments of the College to a new building. Taylor Hall will soon be entirely occupied by the library and by the remaining departments; and it is suggested to all persons who wish to bestow gifts on the College, to contribute to the $50,000 needed for the new building.

Around Taylor Hall it is the intention of the Trustees to erect halls for the accommodation of students; descriptions of Merion Hall, Radnor Hall, and Denbigh Hall are annexed to the present Program.

The Gymnasium is one of the most commodious yet provided for women. It contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather; a room for the Director, to which is attached another for the examination and record of the physical development of the students, and bathrooms for use after exercise. It is open to the students at all times. This gymnasium has been built in accordance with the system of Dr. Sargent; it is furnished with his complete apparatus, and is under the charge of a Director who has completed his course of instruction.

Near the college is a Telegraph Office, Adams' Express Office, and United States Money Order Office. There are good roads in every direction. Riding horses and phaetons may be kept in a livery stable near the college, at a cost of twenty-five dollars a month.



FROM THE NORTH.

RADNOR HALL.

Radnor Hall is under the charge of Mrs. Susan S. Chase.

It was the second hall of residence opened, and was completed in 1887. It is built of stone, and will accommodate about fifty students. It contains (*a*) three sets of rooms, comprising each two bed-rooms and a study; (*b*) forty-two single rooms; and (*c*) three sets of two rooms, each set to be occupied by one student. There is provided for each student a bookcase, a study-table, an arm-chair, and a student's lamp. The rooms are carpeted and completely furnished. The building is lighted by gas.

Board is charged at the rate of $150 a year.

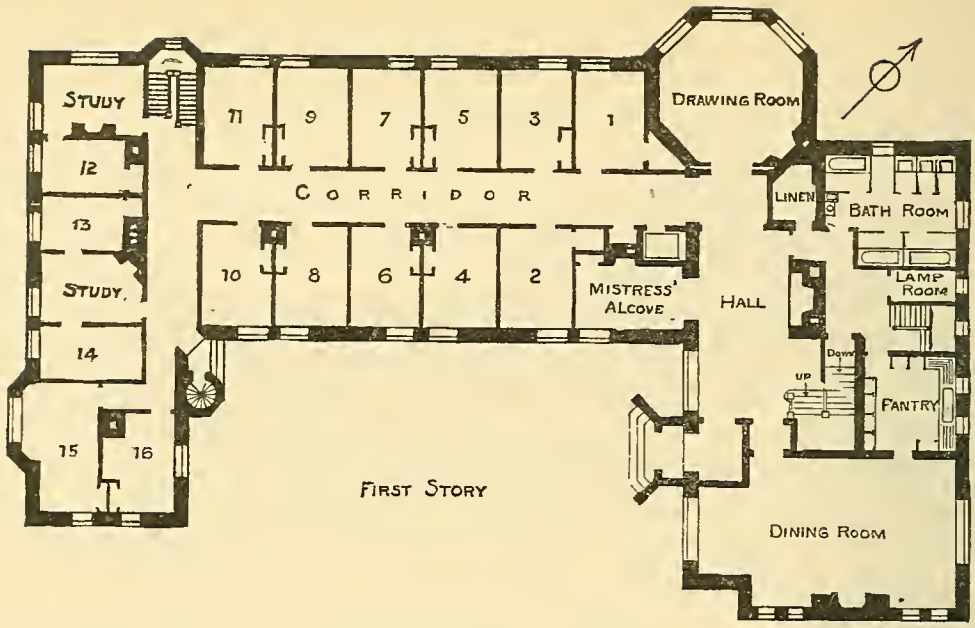
The tariff for rooms for each student, exclusive of board, is, for rooms (*a*), $150 a year; for rooms (*b*), $125 a year; for rooms (*c*), $250 a year. Applications for special rooms should be made as early as possible.

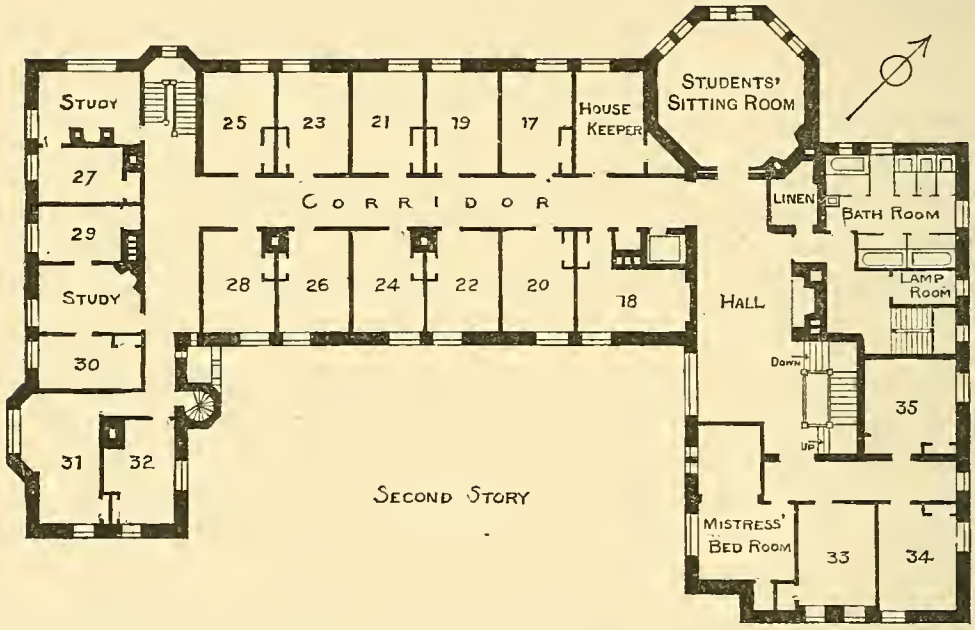
The above-mentioned charges include all expenses of furnishing, service, heating and light, except open fires and washing.

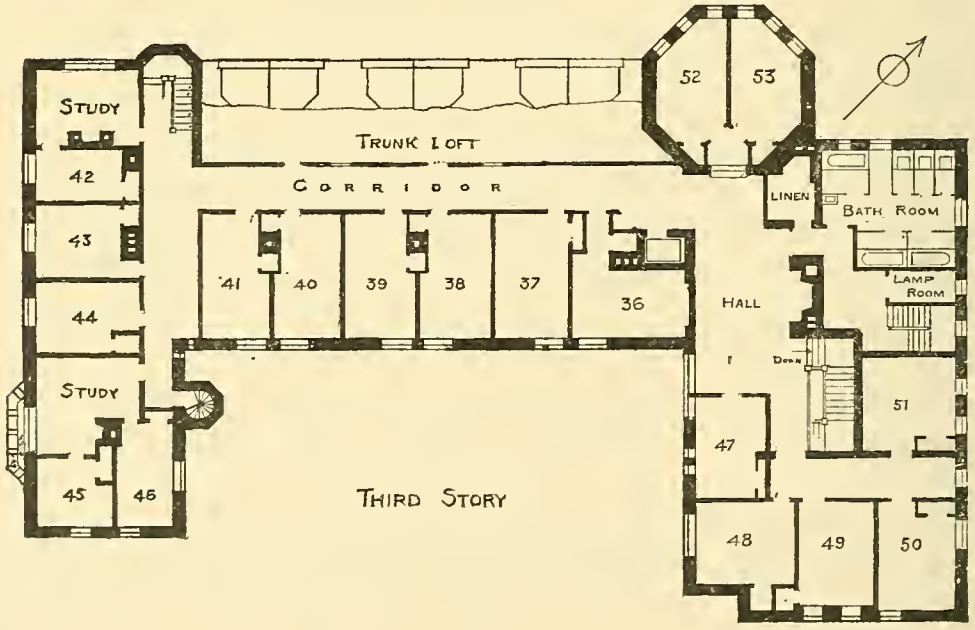
For washing, including towels, an annual charge of $18 a year is made to those students that prefer to have their washing done in the college, entitling them to a dozen pieces a week. All washing in excess of one dozen pieces a week will be charged at the rate of 50 cents a dozen for plain garments.

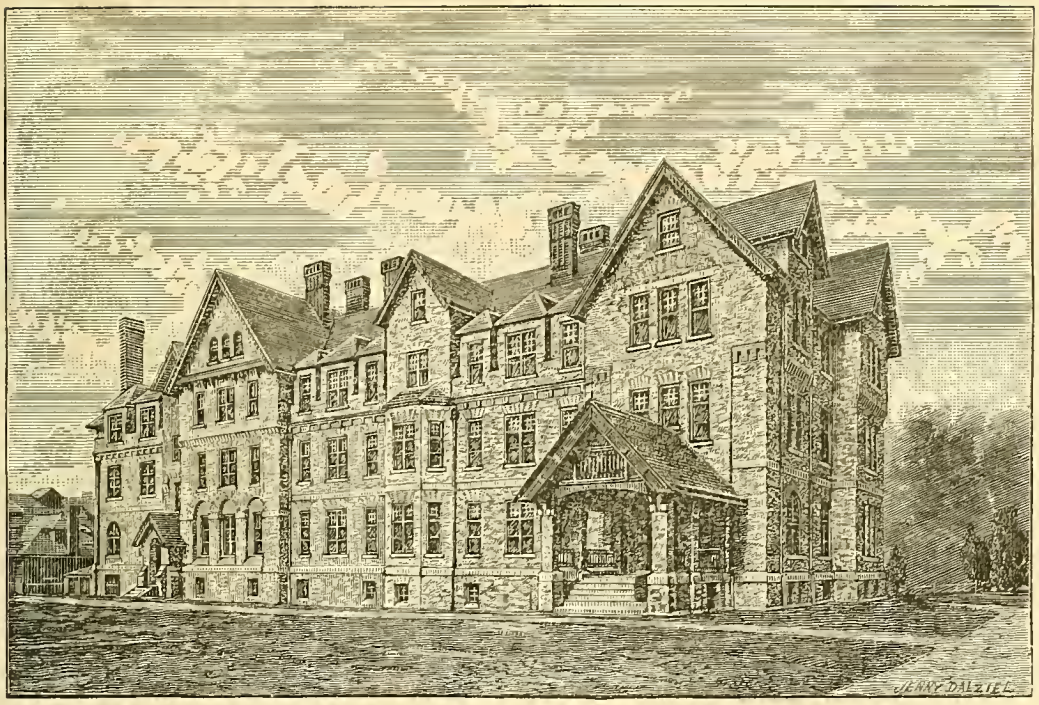
The charges for rooms and board do not include the fee for collegiate instruction, which is a $100 a year. See Program, page 27.

The entire charge for tuition and for board and residence in Radnor Hall (rooms *b*) is $375 a year; (rooms *a*) $400; (rooms *c*) $500.


STUDY
11
9
7
5
3
1
DRAWING ROOM
12
CORRIDOR
LINEN
BATH ROOM
13
10
8
6
4
2
MISTRESS' ALCOVE
HALL
LAMP ROOM
STUDY
14
Down
UP
PANTRY
15
16
FIRST STORY
DINING ROOM


STUDY
25
23
21
19
17
HOUSE KEEPER
STUDENTS' SITTING ROOM
27
CORRIDOR
LINEN
BATH ROOM
29
28
26
24
22
20
18
HALL
LAMP ROOM
STUDY
Down
30
35
UP
31
32
SECOND STORY
MISTRESS' BED ROOM
33
34


52
53
STUDY
TRUNK LOFT
42
CORRIDOR
LINEN
BATH ROOM
43
41
40
39
38
37
36
HALL
LAMP ROOM
44
Down
STUDY
51
47
45
46
THIRD STORY
48
49
50



MERION HALL.

Merion Hall is under the charge of Miss Lydia V. Smith.

It was the first hall of residence opened, and was completed in 1885; it is built of Fairmount stone, and will accommodate about fifty students. It contains eighteen sets of rooms, comprising each two bed-rooms and a study; ten ordinary single bed-rooms; and three rooms of exceptional size. In each study and in each of the single rooms there is an open fire-place; every study contains a bookcase, two study-tables, two arm-chairs and two student's lamps. The building is lighted by gas, and warmed by currents of air passing over steam-heated pipes.

Board is charged at the rate of $150 a year.

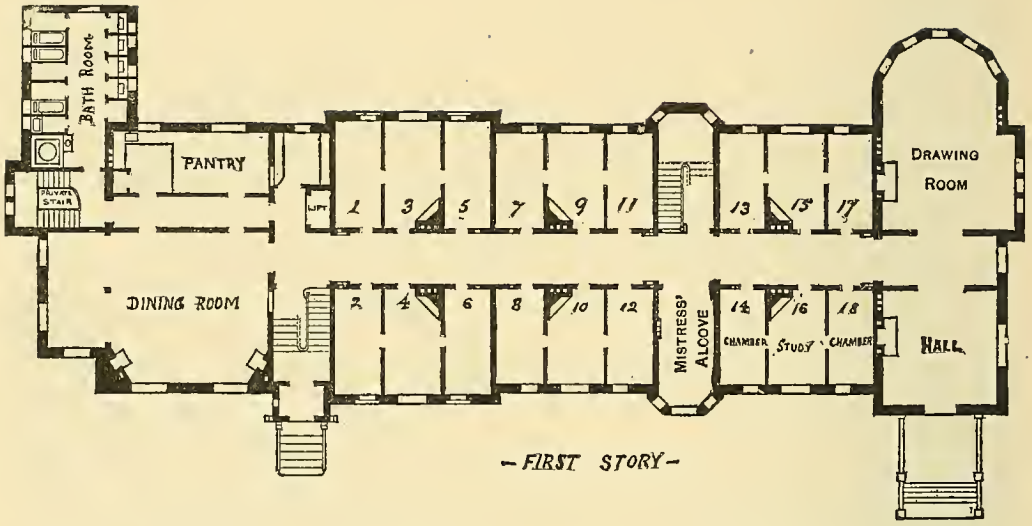
The tariff for sets of rooms is $300 a year, that is, $150 for each student; that for single rooms, $150, except for rooms Nos. 66 and 38, for which $125 will be charged; that for rooms Nos. 65 and 74, $180. Applications for special rooms should be made as early as possible.

The above-mentioned charges include all expenses of furnishing, service, heating, and light, except open fires and washing.

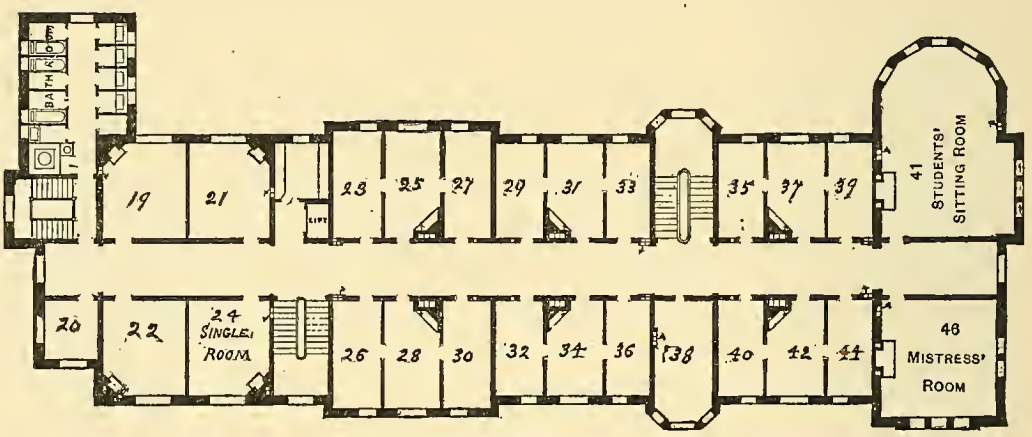
For washing, including towels, an annual charge of $18 a year is made to those students that prefer to have their washing done in the college, entitling them to a dozen pieces a week. All washing in excess of one dozen pieces a week will be charged at the rate of 50 cents a dozen for plain garments.

The charges for rooms and board do not include the fee for collegiate instruction, which is $100 a year. See Program, p. 27.

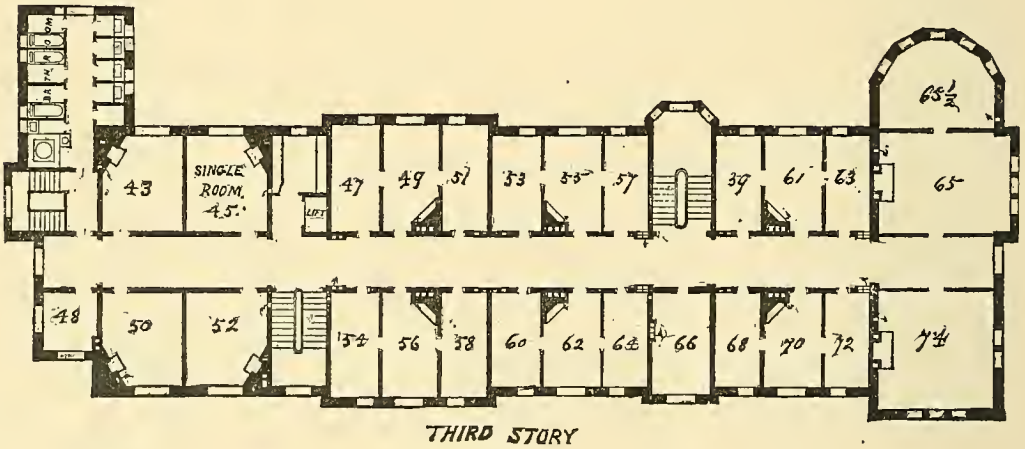
The entire charge for tuition and for board and residence in Merion Hall (except in Rooms Nos. 66, 65 and 74) is $400 a year.



– FIRST STORY –



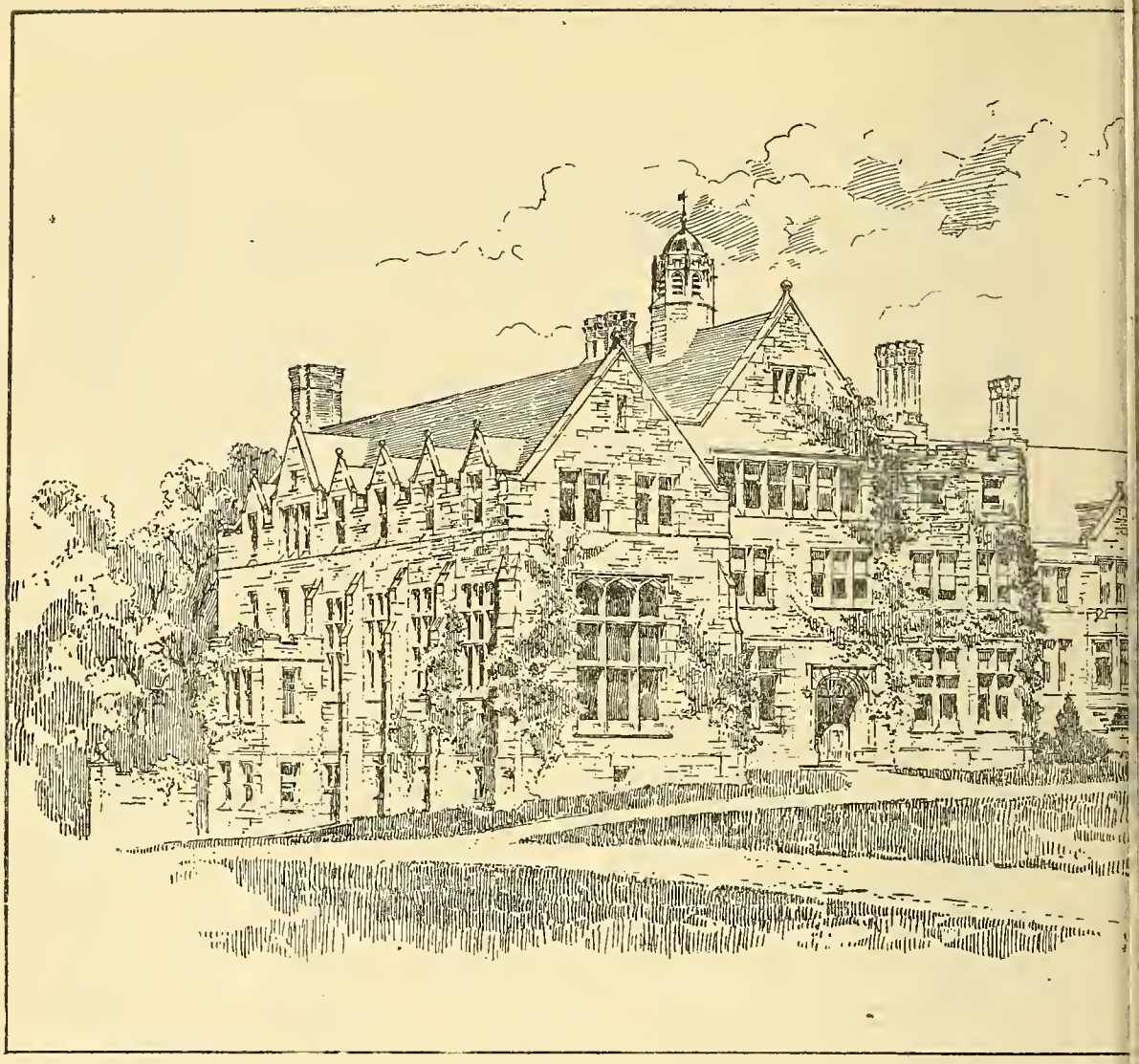
SECOND STORY



THIRD STORY



FIRST FLOOR PLAN



FROM TH

DENBI

Denbigh Hall is the third hall of residence, and will be opened in
It is built of stone, and will accommodate sixty students. It contains (*a*
and desirable room for one student, and one set of rooms comprising two b
bed-rooms and a study; (*c*) three sets similar to the preceding, but some
and a study, and two large single bed-rooms; (*e*) four sets similar to th
rooms somewhat smaller than the preceding rooms. In each study and in
for each student a book-case, a study-table, an arm-chair, and a student's
be lighted by gas, and warmed by currents of air passing over steam-heate
at the rate of $150 a year.

The tariff for rooms for each student, exclusive of board, is for rooms (*a*
$225 a year; for rooms (*c*), numbers 4–8, 10–14, 16–20,—$200 a year; for r
number 37)—$175 a year; for rooms (*e*), numbers 43–47, 46–50, 49–53, 55–5
44, 52, 61, 71, and 75 (on third floor over number 38),—$150 a year; for roo
on the third floor over housekeeper's-room and staircase),—$125 a year. A

The above-mentioned charges include all expenses of furnishing, servic

For washing, including towels, an annual charge of $18 a year is made
them to a dozen pieces a week. All washing in excess of one dozen pieces

The charges for rooms and board do not include the fee for collegiate in

The entire charge for tuition and for board and residence in Denbigh H
(rooms *d*) $425 a year; (rooms *e*) $400 a year; (rooms *f*) $400 a year; (roo

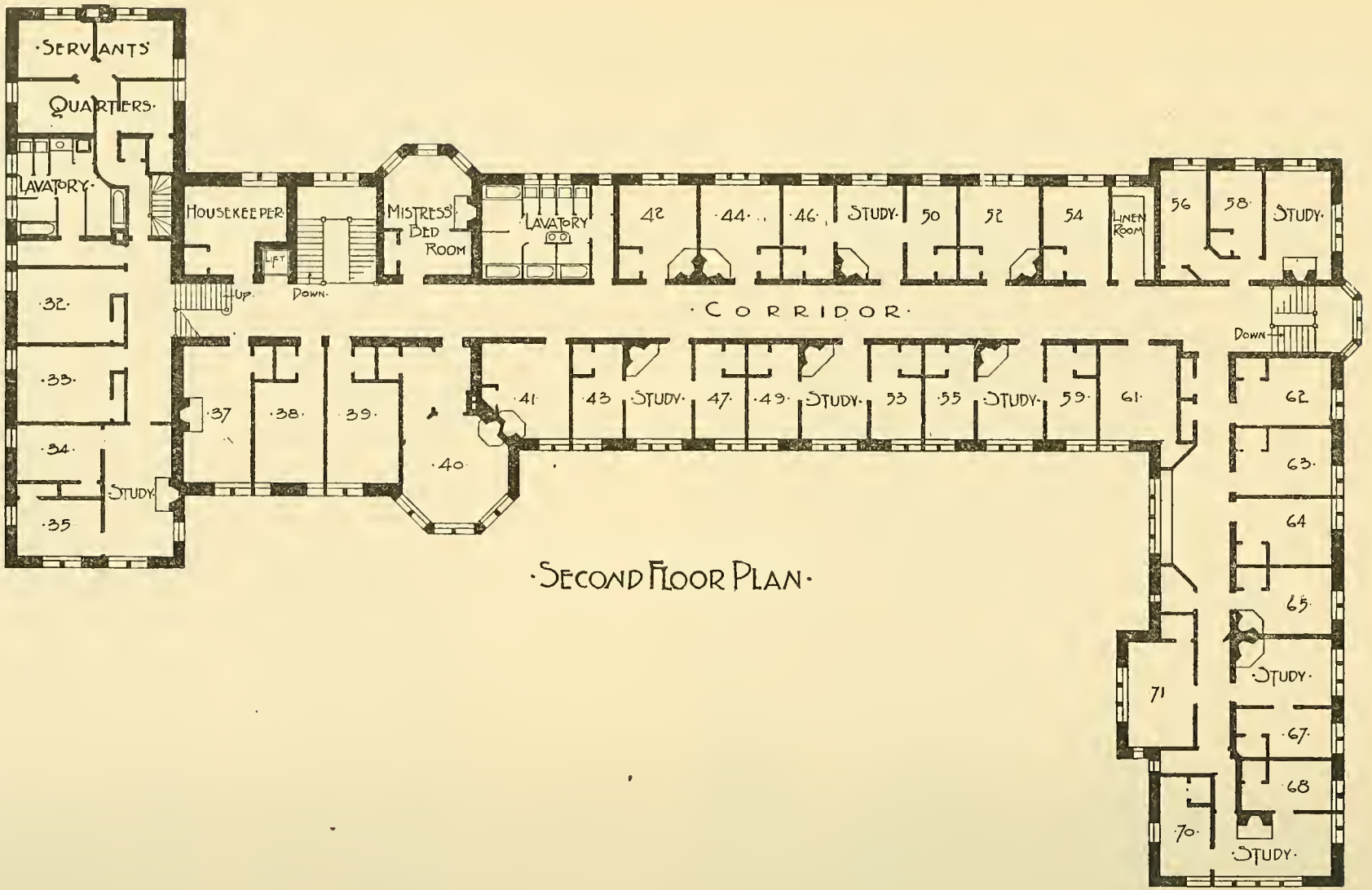


WEST.

HALL.

ary, 1891. It will be under the charge of Mrs. Agnes M. Derkhiem-Irwin. sets of two rooms, each set to be occupied by one student; a very large ms and an unusually large study; (*b*) one set of rooms, comprising two ess commodious; (*d*) four sets of rooms, comprising each two bed-rooms eding but somewhat smaller; (*f*) fifteen single rooms; (*g*) twelve single of the larger single rooms there is an open fire place; there is provided . The rooms are carpeted and completely furnished. The building will s, and the system of ventilation is carefully planned. Board is charged

nbers 27, 67, 40, and 28–30,—$250 a year; for rooms (*b*), numbers 68–70,— (*d*), numbers 5–9, 15–17, 34–35, 56–58, and 37, and 73 (on third floor over 50 a year; for rooms (*f*), numbers, 1, 2, 3, 11, 21, 31, 32, 33, 38, 39, 41, 42, , numbers 13, 22, 23, 24, 25, 54, 62, 63, 64, 65, 72, 74 (the last two rooms are tions for special rooms should be made as early as possible.
ting, and light, except open fires and washing.
se students that prefer to have their washing done in the college, entitling will be charged at the rate of 50 cents a dozen for plain garments.
ion, which is $100 a year. See Program, page 27.
ooms *a*) will be $500 a year; (rooms *b*) $475 a year; (rooms *c*) $450 a year; $375 a year.



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PROGRAM

BRYN MAWR COLLEGE.

1892.

PHILADELPHIA:
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1892.

BRYN MAWR COLLEGE.

College Calendar.

1892.

JANUARY.

Su.	M.	Tu.	W.	Th.	Fr.	Sa.
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1893.

JANUARY.

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The present academic year will close with the Conferring of Degrees by the Trustees at eleven o'clock, on June 2nd, 1892.

There will be a winter recess from December 18th, at three o'clock, to

January 5th, at nine o'clock; and a spring recess from April 13th, at three o'clock, to April 20th, at nine o'clock.

The first semester will end February 6th; half yearly examinations will be held during the last week of the semester, from February 1st to February 6th, and instead of a holiday on Washington's birthday, there will be a recess of two days before the beginning of the next semester, February 10th.

The lectures and class-work of the eighth academic year will begin October 4th, 1892, at nine o'clock, and will close June 1st, 1893.

There will be a winter recess from December 21st, 1892, at three o'clock, to January 4th, 1893, at nine o'clock; and a spring recess from March 29th, at three o'clock, to April 5th, at nine o'clock.

The first semester will end February 4th, 1893; half yearly examinations will be held during the last ten days of the semester, January 25th to February 4th, and instead of a holiday on Washington's birthday there will be a recess of two days before the beginning of the next semester, February 8th, 1893.

Examinations for matriculation will be held during the week preceding the opening of each academic year, and also during the last week of each academic year.

May, 1892.		September, 1892.	
27.		26.	
English,	10—12	*English*,	10—12
Geometry,	3—5½	*Geometry*,	2—4½
28.		27.	
Arithmetic and Algebra,	9—12½	*Arithmetic and Algebra*,	9—12½
French,	3—6	*French*,	2—5
30.		28.	
Latin, { *Composition*, / *Cæsar and Cicero*,	9—12	*Latin*, { *Composition*, / *Cæsar and Cicero*,	9—12
Science,	2—4	*Science*,	2—4
31.		29.	
Latin, { *Virgil*,	9—10½	*Latin*, { *Virgil*,	9—10½
History,	11—1	*History*,	10½—12½
German,	3—6	*German*,	2—5
June 1.		30.	
Greek,	9—12	*Greek*,	9—12
Solid Geometry and Trigonometry,	2—5	*Solid Geometry and Trigonometry*,	2—5

MAY, 1893.

26.

English, ... 10—12
Geometry, ... 3—5½

27.

Arithmetic and Algebra, . . . 9—12½
French, ... 3—6

29.

Latin, { *Composition*, ... } 9—12
{ *Cæsar and Cicero*, . . }
Science, ... 2—4

30.

Latin, { *Virgil*, ... 9—10½
History, ... 11—1
German, ... 3—6

31.

Greek, ... 9—12
Solid Geometry and Trigonometry, 2—5

SEPTEMBER, 1893.

25.

English, ... 10—12
Geometry, ... 2—4½

26.

Arithmetic and Algebra, . . . 9—12½
French, ... 2—5

27.

Latin, { *Composition*, ... } 9—12
{ *Cæsar and Cicero*, . . }
Science, ... 2—4

28.

Latin, { *Virgil*, ... 9—10½
History, ... 10½—12½
German, ... 2—5

29.

Greek, ... 9—12
Solid Geometry and Trigonometry, 2—5

Board of Trustees.

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Academic Appointments.

James E. Rhoads, LL.D., *President of the College.*

M. Carey Thomas, Ph.D., *Dean of the Faculty and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877-78; University of Leipsic, 1879-82; Ph.D., University of Zürich, 1882; Sorbonne and the Collége de France. 1883.

Charlotte Angas Scott, D.Sc., *Professor of Mathematics.*

Lincoln, England. Graduate in Honors, Girton College, Cambridge, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, Cambridge, 1880-84; lectured in connection with Newnham College, 1880-83; D.Sc., University of London, 1885.

Edward Washburn Hopkins, Ph.D., *Professor of Greek, Sanskrit, and Comparative Philology.*

A.B., Columbia College, 1878; Fellow in Literature, Columbia College, 1878-81; University of Leipsic, 1878-81; University of Berlin, 1880; Ph.D., University of Leipsic, 1881; Sorbonne and the Collége de France, 1881; Assistant in Latin and Instructor in Zend, Columbia College, 1881-84.

Paul Shorey, Ph.D., *Professor of Greek and Latin.*

A.B., Harvard University, 1878; University of Leipsic, 1881-82; University of Bonn, 1882; American School of Classical Studies, Athens, 1882-83; Ph.D., University of Munich, 1884.

Edward H. Keiser, Ph.D., *Professor of Chemistry.*

S.B., Swarthmore College, 1880; Assistant in Chemistry in Swarthmore College, 1880-81; S.M., Swarthmore College, 1881; Fellow in Chemistry, Johns Hopkins University, 1882-84; Ph.D., Johns Hopkins University, 1884; student at the Royal School of Mines, Freiberg, Saxony, 1884; Assistant in Chemistry, Johns Hopkins University, 1884-85.

Hermann Collitz, Ph.D., *Associate Professor of German, and Teutonic Philology.*

Bleckede, Hanover, Germany. University of Göttingen, 1875-78; University of Berlin, 1878-81; Ph.D., University of Göttingen, 1878; Privatdocent in the University of Halle, 1885-86.

James Harkness, M.A. (*Cambridge and London*), *Associate in Mathematics.*

Derby, England. Major Scholar, Trinity College, Cambridge, 1882; Graduate in Honors (8th Wrangler), in the Cambridge Mathematical Tripos, 1885; Mathematical Exhibitioner, London University Intermediate Arts Examination, 1885; Mathematical Scholar, London University B.A. Examination, 1887.

Herbert Weir Smyth, Ph.D., *Associate in Greek and Latin.*

A.B., Swarthmore College, 1876, and Harvard University, 1878; University of Leipsic, 1879-81; University of Göttingen, 1881-83; Instructor in Classics and Sanskrit, Williams College, 1883-85; Ph.D, University of Göttingen, 1884; Fellow by Courtesy and Lecturer on Greek, Johns Hopkins University, 1885-87; Reader in Greek Literature, Johns Hopkins University, 1887-88.

Mary Gwinn, Ph.D., *Associate in English.*

Studied at the University of Leipsic, 1879-82; University of Zürich, 1882; Sorbonne and the Collége de France, 1883; Fellow in English, Bryn Mawr College, 1885-87, and Ph.D., Bryn Mawr College, 1888.

Franklin H. Giddings, A.M., *Associate Professor of Political Science.*

A.B., Union College, 1877, and A.M., 1889.

Charles McLean Andrews, Ph.D., *Associate in History.*

A.B., Trinity College, 1884; Fellow in Johns Hopkins University, 1888-89; and Ph.D., 1889.

GONZALEZ LODGE, PH.D., *Associate in Latin.*

A.B., Johns Hopkins University, 1883; Graduate Scholar and Fellow, Johns Hopkins University, 1883–86, and Ph.D., 1886; Professor of Greek, Davidson College, 1886–88; American School of Classical Studies, Athens, 1888–89; University of Bonn, 1889.

GEORGE A. BARTON, A.M., *Associate in Biblical Literature and Semitic Languages.*

A.B., Haverford College, 1882, and A.M., 1885; A.M., Harvard University, 1890, and Ph.D., Harvard University, 1891.

JOSEPH AUGUSTE FONTAINE, PH.D., *Associate Professor of Romance Languages.*

College of Sion, Nancy, France, 1879; Paris, 1880–81; Johns Hopkins University, 1882–86, and Ph.D., 1886; Collége de France, Sorbonne, Ecole des Hautes Etudes, Ecole des Chartes, University of Bonn, 1886–87; Instructor, University of Nebraska, 1887–89; Professor of Modern Languages in the University of Mississippi, 1889–91.

ARTHUR STANLEY MACKENZIE, A.M., *Lecturer in Physics.*

A.B., Dalhousie University, 1885; Tutor in Mathematics, Dalhousie University, 1887–89; Fellow, Johns Hopkins University, 1890–91.

JAMES DOUGLAS BRUCE, A.M., *Associate in Anglo-Saxon.*

A.M., University of Michigan, 1883; University of Berlin, 1886–88; University of Strasburg, 1888; Johns Hopkins University, 1889–90; Professor of Modern Languages, Centre College, 1890–91.

SAMUEL P. MULLIKEN, PH.D., *Associate in Chemistry.*

S.B., Massachusetts Institute of Technology, 1887; Associate in Chemistry, University of Cincinnati, 1887–88; Ph.D., University of Leipsic, 1890; Fellow, Clark University, 1890–91.

THOMAS HUNT MORGAN, PH.D., *Associate Professor of Biology.*

B.S., State College, Kentucky, 1886, and M.S. 1888; Graduate Scholar, John Hopkins University, 1888-89; Fellow in Biology, Johns Hopkins University, 1889–90; Ph.D., Johns Hopkins University, 1890; Adam T. Bruce Fellow, Johns Hopkins University, 1890–91; Studied at the Marine Laboratories, Annisquam, 1886; Beaufort, 1888; U. S. Fish Commission, 1889; Boston Marine Laboratory, 1890; Johns Hopkins Marine Laboratory, Jamaica, 1891.

JOSEPH W. WARREN, M.D., *Associate Professor of Physiology.*

A.B., Harvard College, 1871; University of Berlin, 1871–72; University of Leipsic, 1872–73; University of Bonn, 1873–79; M.D., Bonn, 1880; Assistant and Instructor in Physiology, Harvard Medical School, 1881–91; Lecturer in Medical Department of the University, of the City of New York, 1885–86; Lecturer in Physiology, University of Michigan, 1889.

JACQUES LOEB, M.D., *Associate in Physiology and Physiological Psychology.*

M.D., University of Strasburg, 1884; studied in the University of Berlin, and also in the Agricultural College at Berlin, 1884–86; Assistant in Physiological Laboratory of Professor Fick at Würzburg, 1886–88; Assistant in the Physiological Laboratory of Professor Goltz at Strasburg, 1888–90; studied at the Biological Station, Naples, 1889–91.

ROSE CHAMBERLIN, *Reader in German.*

Great Yarmouth, England. Graduate in Honors, Newnham College; University of Cambridge, England, 1886, (Mediæval and Modern Languages Tripos, First Class).

MABEL PARKER CLARK, A.M., *Reader in English.*

A.B., Bryn Mawr College, 1889; Fellow in English, Bryn Mawr College, 1889–90; A.M., Bryn Mawr College, 1890.

FREDERIC M. PAGE, *Reader in Romance Languages.*

Instructor in Languages, University of Virginia, 1880–81; Assistant Professor of Modern Languages and Literature, University of the South, 1882–91.

AGNES MATHILDE WERGELAND, PH.D., *Reader in the History of Art.*

Christiania, Norway. Studied under the direction of Professor Konrad Mauer, Münich, 1884–86; University of Zürich, 1888–90; Ph.D., University of Zürich, 1890; Fellow in History, Bryn Mawr College, 1890–91.

IDA A. KELLER, PH.D., *Non-resident Lecturer in Botany.*

Studied in the Department of Biology, University of Pennsylvania, 1883–85; University of Leipsic, 1887–89; University of Zürich, 1889–90; Ph.D. University of Zürich, 1890.

IDA H. HYDE, B.S., *Senior Student-Assistant in the Biological Laboratory.*

S.B., Cornell University, 1891.

ANNA DONALDSON MCNAIR, A.B., *Director of the Gymnasium.*

A.B., Antioch College, 1886; Studied under Dr. Sargent, 1889–90.

Anna E. Broomall, M.D., *Consulting Physician of the College.*
Professor in the Woman's Medical College of Pennsylvania.

Ida Richardson, M.D., *Physician of the College.*

Florence E. Peirce, *Librarian.*

Julia Cope, A.B., *Secretary.*
A.B., Bryn Mawr College, 1889.

Honorary Corresponding Secretaries.

Mary McMurtrie, A.B. 1104 *Spruce Street*, Philadelphia.

Sophia Weygandt, A.B , *Upsal Street*, Germantown.

Margaret C. Thomas, A.B., 1228 *Madison Avenue*, Baltimore.

Emily Greene Balch, A.B., *Prince Street, Jamaica Plain*, Boston.

Anne Taylor Simpson, A.B. (Mrs. Frank H. Simpson), *College Hill*, Cincinnati.

Catharine Bean Coxe, A.B. (Mrs. Isaac M. Coxe), San Jose, Cal.

Alys Whitall Pearsall Smith, A.B., 40 *Grosvenor Road S. W.*, London, England.

Students.

Fellows and Graduate Students.

Lilian Vaughan Sampson, . *Holder of the Bryn Mawr European Fellowship.*
Germantown, Pa. A.B., Bryn Mawr College, 1891 ; Graduate Student in Biology, 1891-92.

Susan Braley Franklin, ... *Fellow by Courtesy in Greek.*
Newport, R. I. A.B., Bryn Mawr College, 1889 ; Fellow in Greek, 1889–90 ; Graduate Student at Bryn Mawr College, 1890–92.

Jean K. Howell, ... *Fellow in Biology.*
Painted Post, N. Y. Ph.B., Cornell University, 1888, and M.S., 1890.

Florence V. Keys, ... *Fellow in Greek.*
Toronto, Canada. A.B., Toronto University, 1891.

Caroline Miles, ... *Fellow in History.*
Carthage, Indiana. A.B., Earlham College, 1887 ; Michigan University, 1889–91, and A.M., 1890. Teacher of Latin in Friends' Academy, Bloomingdale, Ind., 1888–89.

Marguerite Sweet, ... *Fellow in English.*
Albany, N. Y. A.B., Vassar College, 1887 ; Graduate Student, Bryn Mawr College, 1889–90 ; and Graduate Scholar, 1890–91.

Mary Frances Winston, ... *Fellow in Mathematics.*
Forreston, Illinois. A.B., University of Wisconsin, 1889. Teacher of Mathematics, Downer College, Wisconsin, 1889–91.

Ethel B. Blackwell, ... *Biology*, 1891–92.
Somerville, N. J. S.B., Massachusetts Institute of Technology, Biological Dept., 1891.

Emily Louisa Bull, ... *Biology and Chemistry*, 1891–92.
Oneonta, N. Y. A.B., Bryn Mawr College, 1891.

Martha Bunting, ... *Biology*, 1891–92.
Philadelphia, Pa. B.L., Swarthmore College, 1882.

JEANETTE E. CARTER, ... *Biology*, 1891–92.
Mt. Harmony, West Va. B.Ph., Adrian College, Mich., 1889. Instructor in Botany and Zoölogy, Adrian College, 1889-90.

EVA ST. CLAIR CHAMPLIN, ... *English*, 1891–92.
Alfred Centre, N. Y. L.B., Alfred University, 1887; Lit. M., 1888; Graduate Student at New York State Library School, 1889-90.

MARY E. CHISHOLM, ... *English*, 1891–92.
Chisholm, Iowa. A.B., Drake University, Iowa, 1890.

MARGARET EASTON, ... *English*, 1891–92.
Philadelphia, Pa. A.B., Pennsylvania College for Women, 1891.

ANNA GODDARD, ... *History*, 1891–92.
Muncie, Ind. B.L., Earlham College, 1891.

GRACE GODDARD, ... *English*, 1891–92.
Muncie, Ind. B.L., Earlham College, 1891.

JANE B. HAINES, ... *History and Political Science*, 1891–92.
Cheltenham, Pa. A.B., Bryn Mawr College, 1891.

MARY HAINES, ... *English and Greek*, 1891–92.
Grinnell, Iowa. A.B., Iowa College, 1890.

ELEANOR MOORE HIESTAND, ... *Biology and Chemistry*, 1890–92.
Vassar College. 1876-78; M.D., Woman's Medical College of Pennsylvania, 1890; Demonstrator of Chemistry in the Woman's Medical College of Pennsylvania.

MARCELLA HOWLAND, ... *English and French*, 1891–92.
Lawrence, Kansas. A.B., Kansas State University, 1890.

IDA H. HYDE, ... *Biology*, 1891–92.
Chicago, Ill. S.B., Cornell University, 1891.

CAROLINE WORMLEY LATIMER, ... *Biology*, 1891–92.
St. Dennis P. O., Md. M.D., Woman's Medical College of Baltimore, 1890; Post-Graduate Medical Course, Johns Hopkins Hospital, 1890-91.

GERTRUDE W. MENDENHALL, ... *Mathematics*, 1891–92.
New Garden, N. C. B.S., Wellesley College, 1885.

HELEN SLEEPER PEARSON, ... *Mathematics*, 1891–92.
Boston, Mass. A.B., Smith College, 1881; A.M., 1883.

HARRIOT C. REITZE, ... *Mathematics*, 1890–92.
Meadville, Pa. A.B., Allegheny College, 1887.

EDITH F. SAMPSON, ... *Biology*, 1891–92.
Germantown, Pa. A.B., Bryn Mawr College, 1890.

ARLETTA F. WARREN, ... *English and Latin*, 1891–92.
Wooster, Ohio. Ph.B., Wooster University, 1889. Teacher in Beaver Dam High School, Wisconsin, 1889-91.

Undergraduates.

ELIZA RAYMOND ADAMS, . . . *Group, History and Political Science*, 1888–92.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind., and by Miss Mary E. Stevens' School, Germantown, Pa.

EDITH AMES, ... *Group, History and Political Science*, 1891–92.
Highlands, N. J. Prepared by Miss Emily L. Bull and by private study.

EMMA LOUISE ATKINS, ... *Group, Biology and Chemistry*, 1889–92.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

SARAH FRANCES ATKINS, . . *Group, History and Political Science*, 1889–92.
Indianapolis, Ind. Classical Course, University of Michigan, 1887–88.

MARY JANNEY ATKINSON, . . . *Group, Biology and Chemistry*, 1890–92.
Lahaska, Pa. Wellesley College, 1888–90.

EMMA DOLL BAILEY, ... *Group, Greek and Latin*, 1890–92.
Harrisburg, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

LUCY BAIRD, ... *Group*, ———, 1891–92.
Louisville, Ky. Prepared by Girls' High School, Louisville, Ky., and Hampton College, Louisville, Ky.

SUSAN A. BALDWIN, ... *Hearer in Latin and Political Science*, 1891–92.
Milford, Conn. Prepared by Temple Grove, Saratoga, N. Y., and by private study.

JESSIE ELLEN BARRITT, . . . *Group, History and Political Science*, 1888–92.
Croydon, England. Prepared by Sidcot School, Somersetshire, England, and The Mount School, York, England.

HELEN BARTLETT, ... *Group, English and German*, 1891–92.
Peoria, Ill. Newnham College, 1889; studied in Berlin, 1882–84, and in 1890.

ALICE BELIN, ... *Group, German and Latin*, 1888–92.
Scranton, Pa. Prepared by Miss Kate Hand, Scranton, Pa.

ELIZABETH CONWAY BENT, ... *Group, Greek and Latin*, 1891–92.
Harrisburg, Pa. Prepared by Mlle. Bonneville's School, Philadelphia, Pa.

LILLIE BIRCH, ... *Group, Greek and Latin*, 1887–92.
Philadelphia, Pa. Prepared by private study.

MABEL BIRDSALL, ... *Group, German and Latin*, 1890–92.
Glens Falls, N. Y. Prepared by Glens Falls Academy.

ABBY SLADE BRAYTON, ... *Group, Greek and Latin*, 1890–92.
Fall River, Mass. Prepared by B. M. C. Durfee High School, Fall River, Mass., and by Miss Mary E. Stevens' School, Germantown, Pa.

MARY BIDWELL BREED, ... *Group, Biology and Chemistry*, 1890–92.
Pittsburgh, Pa. Graduate Pennsylvania College for Women.

JANE LOUISE BROWNELL, . . . *Group, History and Political Science*, 1889–92.
Bristol, Conn. Prepared by High School, Hartford, Conn., and by private study.

LOUISE SHEFFIELD BROWNELL, ... *Group, Greek and Latin*, 1889–92.
New York City. Prepared by Mrs. Griffitts' School, New York City.

ELIZABETH MAXWELL CARROLL, ... *Group, Greek and Latin*, 1888–92.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

KATE HOLLADAY CLAGHORN, ... *Group, Greek and Latin*, 1889–92.
Brooklyn, N. Y. Prepared by Mr. Caskie Harrison, Brooklyn, N. Y. Passed examinations covering the work of the Freshman year in Columbia College, 1888–89.

ANNA VERPLANCK CLAPP, ... *Special Student in Latin*, 1891–92.
Albany, N. Y. Prepared by Albany High School.

ELIZABETH M. CLARK, ... *Group, English and German*, 1891–92.
New York City. Wells College, 1889–90.

HELEN THEODORA CLEMENTS, . *Group, History and Political Science*, 1888–92.
Philadelphia, Pa. Prepared by Ogontz School, Pa.

ANNE C. COLEMAN, ... *Group, History and Political Science*, 1891–92.
Lebanon, Pa. Prepared by Miss Irwin's School, Philadelphia, and by private study.

LISA BAKER CONVERSE, ... *Group, English and Greek*, 1891–92.
Riverton, N. J. Prepared by The Bryn Mawr School, Baltimore, Md., and by private study.

MARY V. CRAWFORD, ... *Group, History and Political Science*, 1891–92.
Bryn Mawr, Pa. Prepared by Mr. and Mrs. L. M. Johnson, Philadelphia, and by Miss Florence Baldwin's School, Bryn Mawr, Pa.

SARAH WILSON DARLINGTON, ... *Group, Greek and Latin*, 1891–92.
Glen Mills, Pa. Prepared by Friends' Graded School, West Chester, Pa., and by Friends' Central School, Philadelphia, Pa.

LOUISA D. DAVIS, ... *Group, Biology and Chemistry*, 1891–92.
Maplewood, N. J. Prepared by Dearborn-Morgan School, Orange, N. J.

LUCY MARTIN DONNELLY, ... *Group, Greek and Latin*, 1889–92.
Brooklyn, N. Y. Prepared by Adelphi Academy, Brooklyn, N. Y.

MARGARET DUDLEY, ... *Group, French and German*, 1889–92.
Topeka, Kansas. Washburn College, Topeka, Kansas, 1887–89.

GRACE A. ELDER, ... *Group, Latin and Mathematics*, 1889–92.
Philadelphia, Pa. Prepared by Wellesley Preparatory School, Philadelphia, Pa., and by private study.

MARY FRENCH ELLIS, ... *Group*, ———, 1891–92.
Philadelphia, Pa. Prepared by Miss Boyer's School, Philadelphia.

RUTH EMERSON, ... *Group, Greek and Latin*, 1889–92.
New York City. Prepared by Miss Gibbons' School, New York.

ANNIE CROSBY EMERY, ... *Group, Greek and Latin*, 1888–92.
Ellsworth, Maine. Prepared by Ellsworth High School, and by one year at school in Dresden.

MARY FLEXNER, ... *Group*, ———, 1891–92.
Louisville, Ky. Prepared by Girls' High School, Louisville, and by private study.

BLANCHE DAVIS FOLLANSBEE, ... *Group*, ———, 1890–92.
Chicago, Ill. Wells College, 1889–90.

CAROLINE REEVES FOULKE, ... *Group*, ———, 1891–92.
Richmond, Ind. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

SUSAN FOWLER, ... *Group, Greek and Latin*, 1891–92.
Baltimore, Md. Prepared by St. Timothy's School, Catonsville, Md.

LOUISE OLIPHANT FULTON, ... *Group, Greek and Latin*, 1889–92.
Philadelphia, Pa. Prepared by Mrs. Sutton's School, Philadelphia, Pa., and by R. H. Fulton, D.D.

ROSALIE ALLAN FURMAN, ... *Group, Biology and Chemistry*, 1891–92.
Evansville, Ind. Prepared by Evansville High School, Evansville, Ind., and by private study.

LEONIE GILMOUR, ... *Group, Biology and Chemistry*, 1891–92.
New York City. Prepared by The Bryn Mawr School, Baltimore, Md.

BELLA MIRA GROSSMANN, ... *Group, English and German*, 1891–92.
New York City. Prepared by The Brearley School, New York.

ELIZABETH GLEIM GUILFORD, . . *Group, Mathematics and Physics*, 1890–92.
Lansdowne, Pa. Swarthmore College, 1889–90.

EMMA LYDIA HACKER, ... *Group, Biology and Chemistry*, 1888–92.
Westbrook, Maine. Prepared by Friends' School, Providence, R. I.

ANNETTE L. HALL, ... *Group, Greek and Latin*, 1890–92.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by private study.

EDITH ROCKWELL HALL, . . . *Group, History and Political Science*, 1888–92.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Phila., Pa.

EDITH HAMILTON, ... *Group, Greek and Latin,* 1891–92.
Fort Wayne, Ind. Prepared by Miss Porter's School, Farmington, Conn., and by private study.

FRANCES BROADHEAD HARRIS, . *Group, History and Political Science,* 1888–92.
Germantown, Pa. Prepared by Miss Lambdin's School, Germantown, Pa.

JANE HOWELL HARRIS, ... *Group, Biology and Chemistry,* 1891–92.
Montclair, N. J. Prepared by High School, Montclair, N. J.

MADELINE VAUGHN HARRIS, ... *Group, Latin and* ———, 1891–92.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

MARY HARRIS, ... *Group, Mathematics and Physics,* 1890–92.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

ELIZABETH CARI HENCH, ... *Group,* ———, 1890–92.
Carlisle, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

GERTRUDE LANGDEN HERITAGE, ... *Group,* ———, 1891–92.
Bryn Mawr, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

MARGARET HILL HILLES, . . *Group, History and Political Science,* 1889–92.
Wilmington, Del. Prepared by the Misses Hebb and by Mr. E. L. Doan, Wilmington, Del.

ELIZABETH FRANCES HOPKINS, ... *Group, French and German,* 1889–92.
Thomasville, Ga. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

HELEN ROLFE HOPKINS, ... *Group, Biology and Chemistry,* 1889–92.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore. Women's College of Baltimore, 1888–89.

JENNIE ELIZABETH HORNER, . . . *Group, Biology and Chemistry,* 1891–92.
Philadelphia, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

MARY E. HOYT, ... *Group, English and Latin,* 1887–90; 1891–92.
Rome, Georgia. Prepared by Shorter College, Rome, Georgia, and by private study.

FRANCES ELIZABETH HUNT, ... *Group, French and German,* 1888–92.
Scranton, Pa. Prepared by School of the Lackawanna, Scranton, Pa., and by Miss Mary E. Stevens' School, Germantown, Pa.

MARY DENVER JAMES, ... *Group, French and Latin,* 1891–92.
Coshocton, Ohio. Philosophical Course, Wooster University, 1890-91.

MARIANNA JANNEY, ... *Group,* ———, 1891–92.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by Miss Mary E. Stevens' School, Germantown.

MARY JEFFERS, ... *Group, Greek and Latin,* 1887–88, 1891–92.
Oil City, Pa. Classical Course, Wellesley College, 1885–86.

GRACE LLEWELLYN JONES, ... *Group,* ———, 1891–92.
San Francisco, Cal. Prepared by Miss West's School and by private tuition.

DORA KEEN, ... *Group, History and Political Science,* 1888–92.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Phila., Pa.

MARGARET D. KELLUM, ... *Group, Greek and Latin,* 1888–92.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

KARIE K. KERSHAW, . . *Group, Greek and Latin,* 1886–87, 1888–89, 1891–92.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

ABBY KIRK, ... *Group, Greek and Latin,* 1887–92.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

CAROLYN KNOWLAND, ... *Hearer in Biology,* 1891–92.
Logan's Ferry, Pa. Woman's Medical College, Baltimore, Md., 1890-91.

JULIA ETHEL LANDERS, . . . *Group, History and Political Science,* 1889–92.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

JULIA OLIVIA LANGDON, . . *Group, History and Political Science,* 1891–92.
Elmira, N. Y. Prepared by Miss Annie Brown's School, New York City.

MARTHA DIVEN LA PORTE, ... *Group, Greek and Latin,* 1890–92.
Tyrone, Pa. Prepared by Mountain Seminary, Birmingham, Pa.

MARY R. LAWTHER, ... *Group, History and Latin,* 1891–92.
Dubuque, Iowa. Prepared by High School, Dubuque, Iowa, and by Miss Mary E. Stevens' School, Germantown, Pa.

ELVA LEE, ... *Group, Greek and Latin,* 1889–92.
Randolph, N. Y. Prepared by Chamberlain Institute, Randolph, N. Y., and by private study.

LUCY LEWIS, ... *Group, History and Political Science,* 1889–92.
Philadelphia, Pa. Prepared by Mr. Robert Truitt, Philadelphia, Pa., and by private study.

KATHARINE LURMAN, ... *Group,* ———, 1891–92.
Catonsville, Md. Prepared by St. Timothy's School, Catonsville, Md.

GERTRUDE MASON LYNCH, . . *Group, History and Political Science,* 1887–90, 1891–92.
Washington, D. C. Prepared by Girls' Classical School, Indianapolis, Ind.

FAY MARY MACCRACKEN, ... *Group, French and Latin,* 1890–92.
New York City. Prepared by Miss Graham's School, New York.

MARGARETTA CAMERON MACVEAGH, . *Group, History and Political Science,* 1890–92.
Philadelphia, Pa. Prepared by Miss Rose Chamberlin, Miss Luella H. Thorne, Miss Edith Child and Miss Jane L. Brownell.

ELLA LAURA MALOTT, ... *Group,* ———, 1891–92.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, and by private study.

LILIAN M. MAPPIN, ... *Group, English and Greek,* 1891–92.
Bryn Mawr, Pa. Prepared by Rev. W. F. Mappin and by private study.

EMILY NORTON MARTIN, ... *Group, Latin and Mathematics,* 1890–92.
Ardmore, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa., and by private study.

MARY ROCKWITH MARTIN, ... *Group, Latin and* ———, 1890–92.
Ardmore, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

MARY TAYLOR MASON, ... *Group, History and Political Science,* 1888–92.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

CHARLOTTE FRELINGHUYSEN MCLEAN, *Hearer in Latin and Mathematics,* 1891–92.
Philadelphia, Pa. Prepared by Friends' Central School, Phila., Miss Sandford's School, Phila., and by Professor R. H. Chase.

MARY BELLE MCMULLIN, ... *Group, Greek and Latin,* 1889–92.
Philadelphia, Pa. Prepared by Miss Gordon's School, Philadelphia, Pa.

MARY ANNA MENDINHALL, ... *Group,* ———, 1891–92.
Wilmington, Del. Prepared by Mr. Isaac Johnson's School, Wilmington.

HELEN MIDDLETON, ... *Group, History and Political Science,* 1890–92.
Pittville, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

ELISABETH HÖRNLI MIFFLIN, ... *Group,* ———, 1890–92.
Wayne, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

MARIE LOUISE MINOR, ... *Group, Biology and Chemistry*, 1890–92.
Brooklyn, N. Y. Prepared by the Packer Collegiate Institute, Brooklyn.

HANNAH IRENE MOORE, ... *Group,* ———, 1890–92.
Philadelphia, Pa. Prepared by Miss Cooper's School, Philadelphia, and by private tuition.

LILLIAN VIRGINIA MOSER, ... *Group, French and German*, 1888–92.
Syracuse, New York. Prepared by Syracuse High School, and by private study.

CAROLYN LADD MOSS, ... *Group, History and Political Science*, 1890–92.
Ottumwa, Iowa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

NELLIE NEILSON, ... *Group, English and Greek*, 1889–92.
Philadelphia, Pa. Prepared by Miss Cooper's School, Philadelphia, Pa.

MARY NEVILLE, ... *Group, Greek and Latin*, 1891–92.
Lexington, Ky. Prepared by private study and by Miss Mary E. Stevens' School, Germantown, Pa.

ELIZABETH NICHOLS, ... *Group, Biology and Chemistry*, 1889–92.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, Pa.

ELIZABETH R. NICHOLSON, ... *Group, Biology and Chemistry*, 1891–92.
Haverford College, Pa. Prepared by The Girton School, Haverford College, Pa.

ELISE LUCY OGDEN, ... *Group, Biology and Chemistry*, 1891–92.
Knoxville, Tenn. Prepared by Miss Ogden, and by Girls' High School, Louisville, Ky.

RACHEL LOUISE OLIVER, ... *Group, Greek and Latin*, 1888–92.
Lynn, Mass. Prepared by Lynn High School and by private study.

HENRIETTA R. PALMER, . . . *Group, History and Political Science*, 1889–92.
Providence, R. I. Prepared by Providence High School. School of Library Economy, Columbia College, 1887–89. Acting Librarian, Bryn Mawr College, 1890–91.

EDITH PETTIT, ... *Group, History and Political Science*, 1891–92.
Philadelphia, Pa. Prepared by Miss Irwin's School, Philadelphia, Pa.

GRACE PINNEY, ... *Group, French and German*, 1887–92.
New York City. Prepared by private study.

KATHERINE PORTER, ... *Group, Biology and Chemistry*, 1890–92.
Baltimore, Md. Prepared by Friends' Elementary and High School, Baltimore, Md., and by private study.

LAURETTE EUSTIS POTTS, ... *Group, English and Latin*, 1890–92.
Philadelphia, Pa. Prepared by Bellefonte Academy, and by private tuition.

BERTHA HAVEN PUTNAM, . . . *Group, History and Political Science*, 1889–92.
New York City. Prepared by Miss Gibbons' School, New York City.

ESTELLE REID, ... *Group, History and Political Science*, 1890–92.
New York City. Prepared by Miss Gibbons' School, New York City, and by Miss Flattery.

MARY HELEN RITCHIE, ... *Group, Greek and Latin*, 1891–92.
Falls of Schuylkill, Pa. Prepared by Miss Irwin's School, Philadelphia.

ANNA CUSHMAN ROBBINS, ... *Group,* ———, 1891–92.
Wethersfield, Conn. Prepared by High School, Hartford, Conn.

HARRIET ROBBINS, ... *Group, History and Political Science*, 1889–92.
Wethersfield, Conn. Prepared by High School, Hartford, Conn.

HELEN J. ROBINS, ... *Group, English and Latin*, 1888–92.
Bryn Mawr, Pa. Prepared by Miss Case and Miss Hallowell's School, Phila., Pa.

AMY CORDOVA ROCK, ... *Group, Chemistry and Physics*, 1889–92.
Washington, D. C. Prepared by High School, Washington, D. C., by Miss Mary E. Stevens' School, Germantown, Pa., and by private study.

MILDRED M. ROELKER, . . . *Group, History and Political Science*, 1890–92.
Washington, D. C. Prepared by High School, Washington, D. C.

HELEN KUNKLE ROSS, ... *Group, Latin and* ———, 1890–92.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown.

MARGARET HILLES SHEARMAN, *Group, History and Political Science*, 1890–92.
Wilmington, Del. Prepared by the Misses Hebb, Wilmington, Del., and by Miss Mary E. Stevens' School, Germantown, Pa.

HARRIET RIDGWAY SHREVE, . . . *Group, Latin and Mathematics*, 1891–92.
Plainfield, N. J. Prepared by Miss Pomeroy, by Mrs. Sudler, and by private study.

JENNIE M. STAADEKER, ... *Group, Biology and Chemistry*, 1890–92.
Louisville, Ky. Prepared by Girls' High School, Louisville, and by private study.

HELEN R. STAPLES, ... *Group, French and German*, 1889–92.
Dubuque, Iowa. Prepared by Dubuque High School, and by Lasell Seminary, Auburndale, Mass.

ESTHER CLARKSON MAYER STEELE, . . *Group, French and Greek*, 1891–92.
Philadelphia, Pa. Prepared by Miss Cooper's School, Philadelphia, Pa.

HARRIET STEVENSON, . . *Group, Mathematics and Physics*, 1887–89, 1890–92.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis. Ind. Scientific Course, Wellesley College, 1886–87.

FRANCES DORR SWIFT, ... *Group, English and Latin*, 1891–92.
Wilmington, Del. Prepared by the Misses Hebbs' School, Wilmington, Del., and by Mrs. W. A. Reynolds, Wilmington.

BERTHA SZOLD, ... *Group, English and Latin*, 1891–92.
Baltimore, Md. Prepared by the Misses Adams' School, Baltimore, Md.

GERTRUDE ELIZABETH TAYLOR, ... *Group, Greek and Latin*, 1889–92.
Cambridge, Ohio. Prepared by McDonald Ellis School, Washington, D. C., and by Centenary Collegiate Institute, Hackettstown, N. J.

MARION SATTERTHWAITE TAYLOR, . . *Group, History and Political Science*, 1890–92.
Sewickley, Pa. Prepared by Westtown Boarding School and by private study.

MARY LEWIS TAYLOR, ... *Group, Mathematics and Physics*, 1888–92.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

HELEN WHITALL THOMAS, ... *Group, Greek and Latin*, 1889–92.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

LYDIA LOIS TILLEY, ... *Group, Mathematics and Physics*, 1891–92.
Berkley, Norfolk County, Va. Prepared by Hemenway High School, and by Norfolk College, Norfolk, Virginia.

LILLIA M. D. TRASK, ... *Group,* ———, 1891–92.
New Brighton, Staten Island, N. Y. Prepared by Mrs. John Scribner, Staten Island.

UMÉ TSUDA, ... *Special Student in Biology*, 1889–92.
Tokio, Japan. Teacher in Peeresses' School, Tokio, Japan, 1884–88.

EDITH LOUISE VAN KIRK, ... *Group, French and Latin*, 1890–92.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, and by private study.

SUSAN FRANCES VAN KIRK, ... *Group, English and Latin*, 1889–92.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

ETHEL MCCOY WALKER, . . . *Group, History and Political Science*, 1890–92.
Washington, D. C. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

EVANGELINE HOLCOMBE WALKER, *Group, Greek and Latin*, 1887–88, 1890–92.
Washington D. C. Prepared by Girls' Classical School, Indianapolis, Ind.

Susan Grimes Walker, . . . *Group, History and Political Science*, 1889–92.
Boston, Mass. Prepared by The McDonald Ellis School, Washington, D. C., and by private study.

Adeline B. Walters, ... *Group, Greek and Latin*, 1891–92.
Lansdowne, Pa. Prepared by Friends' Central School, Philadelphia, Pa.

Margaret Warner, ... *Group,* ———, 1891–92.
Hartford, Conn. Prepared by High School, Hartford, Conn.

Mathilde Weil, ... *Group, English and French*, 1887–92.
Philadelphia, Pa. Prepared by Mr. and Mrs. L. M. Johnson's School, Philadelphia, Pa.

Anna E. West, ... *Group,* ———, 1891–92.
Moorestown, N. J. Prepared by Miss Case and Miss Hallowell's School, Phila., Pa.

Edith Wetherill, ... *Group, History and Political Science*, 1888–92.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Phila., Pa.

Agnes Mary Whiting, ... *Group, German and Greek*, 1888–92.
Springfield, Mass. Prepared by Miss Catharine L. Howard's School, Springfield, Mass.

Emma Stansbury Wines, ... *Group, English and French*, 1890–92.
Springfield, Ill. Wellesley College, 1889-90.

Elizabeth Ware Winsor, . . *Group, Greek and Latin*, 1888–89, 1890-92.
Weston, Mass. Prepared by High School, Winchester, Mass. Harvard Annex, 1889-90.

Anna H. Yardley, ... *Group, Greek and Latin*, 1890-92.
Milford, Del. Prepared by Milford Classical School.

Louise S. Young, ... *Group, History and Political Science*, 1890–92.
Philadelphia, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa., and by private tuition.

Former Fellows, Graduate Students, and Undergraduates that have not taken their Degrees.

Emily Greene Balch, *Holder of the Bryn Mawr European Fellowship*, 1889–90.
Jamaica Plain, Mass. A.B., Bryn Mawr College, 1889. Collége de France and the Sorbonne, 1890-91.

Katharine Morris Shipley, ... *Holder of the Bryn Mawr European Fellowship*, 1890–91.
Cincinnati, O. A.B., Bryn Mawr College, 1890; University of Leipsic, 1890-91; Collége de France and the Sorbonne, 1891-92.

Jane M. Bancroft,* *Fellow in History*, 1885–86.
West Stockbridge, Massachusetts. Ph.B., Syracuse University, 1877; Ph.M., 1880; and Ph.D., 1884; Professor of French Language and Literature, Northwestern University, Evanston, Illinois, 1877–85; University of Zürich, 1886–87, and Collége de France and the Sorbonne, 1888.

Cora Agnes Benneson, ... *Fellow in History*, 1887–88.
Quincy, Illinois. A.B., University of Michigan, 1878; LL.B., 1880; and A.M., 1883.

Elizabeth Miller Blanchard, ... *Fellow in Mathematics*, 1889-90.
Bellefonte, Pa. A.B., Bryn Mawr College, 1889. Teacher of Mathematics in The Bryn Mawr School, Baltimore, Md.

Mabel P. Clark, ... *Fellow in English*, 1889–90.
New York City. A.B., Bryn Mawr College, 1889, and A.M., 1890. Reader in English, Bryn Mawr College.

* Mrs. George O. Robinson, 1891.

KATE MAY EDWARDS, ... *Fellow in Greek*, 1888–89.
Ithaca, New York. A.B., Cornell University, 1888. Instructor in Greek, Wellesley College.

KITTY AUGUSTA GAGE, ... *Fellow in Greek*, 1885–86.
Wilton, New Hampshire. A.B., Boston University, 1878; A.M., Cornell University, 1885. Teacher of Classics in the State Normal School, New Paltz, New York.

RUTH GENTRY, ... *Fellow in Mathematics*, 1890–91.
Stilesville, Ind. Ph.B., University of Michigan, 1890; University of Berlin, 1891–92.

MARY GWINN, ... *Fellow in English*, 1885–87.
Baltimore, Maryland. University of Leipsic, 1879–82; University of Zürich, 1882; Bryn Mawr College, 1887–88. Ph.D., Bryn Mawr College, 1888. Associate in English, Bryn Mawr College.

ELIZABETH HARRIS, ... *Fellow in Greek*, 1890–91.
Germantown, Pa. A.B., Bryn Mawr College, 1890. Teacher of Greek and Latin in The Dutch Reform Collegiate Grammar School, New York City.

ELEANOR LOUISA LORD, ... *Fellow in History*, 1889–90.
Malden, Mass. A.B., Smith College, 1887; and A.M., 1890. Instructor in History, Smith College.

HELEN L. LOVELL, ... *Fellow in Greek*, 1887–88.
Flint, Michigan. A.B., University of Michigan, 1887. Teacher of Greek and Latin at Girls' Classical School, Indianapolis, Ind., 1889–90. Associate Professor of Greek and Latin, Woman's College, Baltimore, Md.

GERTRUDE H. MASON, ... *Fellow in English*, 1887–88.
San José, California. Ph.B., University of Michigan, 1876. Teacher of English in Petaluma High School.

KATHARINE MERRILL, ... *Fellow in English*, 1890–91.
Abilene, Kansas. A.B., Kansas State University, 1889. Graduate Student at Bryn Mawr College, 1889–90; Harvard Annex, 1891–92.

MARCELLA I. O'GRADY, ... *Fellow in Biology*, 1887–89.
Boston, Mass. S.B., Massachusetts Institute of Technology, 1885. Teacher of Science in The Bryn Mawr School, Baltimore, Md., 1885–87; Demonstrator Biological Laboratory, Bryn Mawr College, 1888–89; Associate Professor of Biology, Vassar College.

HARRIET RANDOLPH, ... *Fellow in Biology*, 1889–90.
Philadelphia, Pa. A.B., Bryn Mawr College, 1889; University of Zürich, 1890–92.

LUCY M. SALMON, ... *Fellow in History*, 1886–87.
Fulton, New York. A.B., University of Michigan, 1876, and A.M., 1883. Teacher of History in the Indiana State Normal School, 1883–86; Associate Professor of History, Vassar College.

SARAH E. SATTERTHWAITE,* *Fellow in Greek*, 1886–87.
Marine City, Michigan. A.B., University of Michigan, 1886.

HANNAH ROBIE SEWALL, ... *Fellow in History*, 1888–89.
St. Paul, Minn. A.B., University of Minnesota, 1884; A.M., University of Michigan, 1887; Fellow by Courtesy in History, Bryn Mawr College, 1889–90.

EFFIE A. SOUTHWORTH, ... *Fellow in Biology*, 1885–86.
North Collins, New York. S.B., University of Michigan, 1885; Fellow in Biology, Bryn Mawr College, 1885–86, and Student-Assistant in the Biological Laboratory, 1886–87. Assistant Mycologist of the United States Agricultural Bureau, Washiugton.

ANNE A. STEWART, ... *Fellow in Mathematics*, 1886–87.
West Bay, Nova Scotia. Studied in University College, London, 1880–82; B.Sc., Dalhousie College, Halifax, Nova Scotia, 1886. Teacher of Mathematics in Miss Mary E. Stevens' School, Germantown, Pa.

AGNES MATHILDE WERGELAND, ... *Fellow in History*, 1890–91.
Christiania, Norway. Studied under the direction of Prof. Konrad Mauer, Münich, 1884–86; University of Zürich, 1888–90; Ph.D., University of Zürich, 1890. Reader in History of Art, Bryn Mawr College.

* Mrs. Francis Alexander Leslie, 1890.

ELLA C. WILLIAMS, ... *Fellow in Mathematics*, 1885–86.

Watkins, New York. A.M., University of Michigan, 1880; studied under Professor Schwartz of Göttingen, nineteen months, 1883–85; in residence at Newnham College during the spring term of 1884. Teacher of Mathematics in Miss Moses' School, New York City, 1886–87; Teacher in State Normal School, Plymouth, New Hampshire.

IDA WOOD, ... *Fellow in English*, 1888–89.

Philadelphia, Pa. A.B., Vassar College, 1877, and A.M., 1889. Graduate Student at Bryn Mawr College, 1887–88; Fellow by Courtesy in English, Bryn Mawr College, 1890–91; and Ph.D., 1891.

EMMA BAIN, ... *English*, 1889–90.

Martinsville, Ind. A.B., Indiana State University, 1889.

JESSIE BREVITT, ... *Chemistry and Physiology*, 1889–90.

Baltimore, Md. M.D., Woman's Medical College, Baltimore, 1889. Lecturer on Chemistry, Woman's Medical College, Baltimore.

JEANNETTE S. BROWN, ... *Greek*, 1886–87.

Graduate Harvard Annex, 1885. Teacher of Greek and Latin in The Bryn Mawr School, Baltimore, Md.

ANNA B. CARROLL, ... *English and History*, 1888–90.

Wilmington, Ohio. A.B., Wilmington College, 1887. Teacher of English, Friends' School, Providence, R. I.

EDITH DENISE, ... *French and German*, 1889 90.

Burlington, Iowa. B.L., Lake Forest University, 1885.

AGNES EMORY, ... *Greek and Latin*, 1886–87.

Lawrence, Kansas. A.B., University of Kansas, 1884.

MARY H. FREEMAN, ... *Romance Languages*, 1885–87.

Mumford, New York. A.B., Vassar College, 1881, and A.M., 1887. Teacher in the State Normal School, New Paltz, New York.

MARY EASTMAN GALE, ... *Latin and Mathematics*, 1888–90.

Laconia, N. H. A.B., Swarthmore College, 1882. Teacher of Latin in Mrs. E. L. Head's School, Germantown, Pa., and in Miss Baldwin's School, Bryn Mawr, Pa., 1889–91. Teacher of Latin in Mrs. E. L. Head's School, Germantown, Pa.

LEAH GOFF, ... *Biology*, 1889–90.

Bryn Mawr, Pa. A.B., Bryn Mawr College, 1889. Demonstrator in Biological Laboratory, Bryn Mawr College.

FLORENCE HALL, ... *Gothic, Middle High German and Spanish*, 1888–89.

Swarthmore, Pa. A.B., Swarthmore College, 1880. Teacher of German in Friends' Central School, Philadelphia, Pa.

SUSAN RACHEL HARRISON, ... *Greek and Latin*, 1885–87.

Richmond, Indiana. A.B., Earlham College, 1883.

CAROLINE E. HILLIARD, ... *Chemistry*, 1885–86.

Northboro', Mass. A.B., Smith College, 1883.

ALICE W. JACKSON, ... *History and Political Science*, 1888–89.

Germantown, Pa. A.B., Swarthmore College, 1883.

HELEN HOWARD JEFFRIES, ... *Latin and Political Science*, 1889–90.

Wooster, Ohio. Ph.B., Wooster College, 1889.

MARY A. JOHNSON, ... *Biology*, 1887–89.

New York City. L.B., Smith College, 1885, and A.M., 1888; Newnham College, 1886–87; Holder of Scholarship at the Woman's Medical College, Philadelphia, Pa., 1889–92.

ROSA ELLEN LEWIS, ... *English*, 1888–89.

Oskaloosa, Iowa. S.B., Penn College, Iowa, 1882, and A.M., 1885. Professor of English Literature and History, Penn College, Iowa.

SARAH ELVA LEWIS, ... *English and History*, 1888–89.

Estacado, Texas. S.B., Penn College, 1883. Superintendent of Schools, Estacado.

DOROTHY WILBERFORCE LYON, ... *English*, 1887–89.
Meadville, Pa. A.B., Wells College, 1887.

MARIAN WILHELMINA MACINTOSH, . . *Graduate Scholar in Greek*, 1890–91.
Philadelphia, Pa. A.B., Bryn Mawr College, 1890.

MARY ELIZABETH MILLER, ... *English and German*, 1890–91.
Beaver Falls, Pa. B.S., Geneva College, 1890.

GEORGIANA LEE MORRILL, ... *English*, 1888–89.
Germantown, Pa. A.B., Vassar College, 1882, and A.M., 1889.

FLORA ALICE NEWLIN, ... *History and Political Economy*, 1890–91.
Lawrence, Kansas. A.B., Kansas State University, 1889.

JULIA BARLOW PLATT, ... *Biology*, 1888–89.
Burlington, Vt. Ph.B., University of Vermont, 1882; Harvard Annex, 1886–88; Biological Station, Naples, 1891, University of Freiburg-in-Baden, 1891–92.

SARAH M. POTTER,* *English and History*, 1886–87.
Glens Falls, N. Y. A.B., Wellesley College, 1884.

ANNA ELY RHOADS, ... *Greek*, 1889–90.
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1889; University of Leipsic, 1890–91.

ZILLAH M. SHERMAN, ... *English*, 1887–88.
Ashtabula, Ohio. A.B., Wells College, 1882; University of Michigan, 1888–89.

ANNA MORSE STARR, ... *Latin*, 1889–90.
Elyria, Ohio. B.L., Ohio Wesleyan University, 1887.

MARY KINGSLEY TIBBETTS, ... *English*, 1889–90.
Fredericton, New Brunswick. A.B., University of New Brunswick, 1889. Principal of the Gagetown Grammar School, New Brunswick.

BESSIE C. TODHUNTER, ... *Greek and Latin*, 1889–90.
Wilmington, Ohio. A.B., Wilmington College, 1889. Teacher in Martin Academy, Kennett Square, Pa.

MARY TREMAIN, ... *English and History*, 1886–87.
Lincoln, Nebraska. S.B., Nebraska State University, 1881.

FLORENCE MEHITABEL WATSON, ... *Latin*, 1889–90.
Northfield, Minn. B.L., Carleton College, 1887, and M.L., 1890. Teacher of Latin and History in the High School, Bristol, Conn.

EMILY F. WHEELER, ... *Modern Languages*, 1887–88.
Rockford, Ill. A.B., Northwestern University, 1875, and A.M., 1880. Professor of Romance Languages in the Northwestern University, Evanston, Ill.

ELLEN C. WRIGHT, ... *English and Latin*, 1888–89.
Wilmington, O. A.B., Wilmington College, 1875. Professor of English, Wilmington College.

MADELINE VAUGHAN ABBOTT, ... *Group, Greek and Latin*, 1889–91.
Cambridge, Mass. Prepared by Cambridge Latin School, Cambridge, Mass. Harvard Annex, 1891–92.

GERTRUDE ALLINSON, ... *Group, English and German*, 1885–87.
Beverly, N. J. Prepared by Friends' School, Providence, R. I.

ELEANOR ANNE ANDREWS, . . . *Hearer in English and German*, 1889–90.
Hampstead, England. Newnham College, 1879–81.

ETHELWYN MORRILL ATWATER, . . *Group, Biology and Chemistry*, 1887–89.
Millville, N. J. Prepared by Friends' Central School, Philadelphia, Pa., and by private study.

SOPHIA MEAD ATWATER, ... *Group*, ———, 1886–88.
Millville, N. J. Prepared by private study.

* Mrs. Howard Simmons Paine, 1890.

ANTOINETTE LOUISE BANCROFT,* *French and German*, 1888–89.
Waterbury, Conn. Special Student, Smith College, 1883–86.

ELIZABETH GRAEME BARBOUR, . . . *Group, English and Latin*, 1888–89.
Richmond, Ky. Central University, Richmond, Ky, 1880–88. Principal of Private School, Richmond, Ky.

EMMA JOSEPHINE BATTERSBY, . *Group, History and Political Science*, 1886–89.
Bryn Mawr, Pa. Prepared by Wellesley Preparatory School, Philadelphia, Pa.

EDNA ALWILDA BOWMAN, ... *Group*, ———, 1891–92.
San José, Cal. University of the Pacific, 1885–89. Prepared by Miss Mary E. Stevens' School, Germantown, Pa., and by private study.

NELLIE BRIGGS, ... *German and Latin*, 1890–91.
Grinnell, Iowa. Iowa College, 1882–87.

JOSEPHINE G. CAREY,† *Biology*, 1885–86.
Baltimore, Md. Prepared by Miss Reinhardt's School, Baltimore, Md.

LUCY EDITH CHASE, ... *Latin and Mathematics*, 1888–89.
Brooklyn, N. Y. Prepared by Packer Collegiate Institute, Brooklyn, N. Y. Teacher of Mathematics, Packer Collegiate Institute, Brooklyn, N. Y.

SUE SHIRLEY CHENAULT, ... *Group*, ———, 1890–91.
Louisville, Ky. Wellesley College, 1886–87.

CORA MOTT CHILD, ... *Group, Greek and Latin*, 1887–88.
Chateaugay, N. Y. Classical Course, University of Vermont, 1885–87.

OLIVIA SUSAN CLEMENS, ... *Group*, ———, 1890–91.
Hartford, Conn. Prepared by private study.

ELISA COATES, ... *Group*, ———, 1890–91.
Philadelphia, Pa. Prepared by Miss Irwin's School, Philadelphia, Pa.

ELIZABETH COOKE, ... *Biology*, 1890–91.
Cedar Rapids, Iowa. Coe College, 1884–88; University of Michigan, 1888–90; Student-Assistant in the Biological Laboratory, Bryn Mawr College, 1890–91.

LILIAN DIXON, ... *History and Physics*, 1888–89.
Devon, Pa. Special Student at Wellesley College, 1886–88.

ANABEL DOUGLAS, ... *Hearer in English and History*, 1889–90.
Rochester, N. Y. Prepared by Geneseo Normal School, N. Y. Newnham College, Cambridge, England, 1890–92.

HELEN ERBEN, ... *Hearer in English and German*, 1887–89.
Radnor, Pa. Prepared by private study.

LYDIA SOPHIA FERGUSON, ... *Hearer in Greek and Latin*, 1888–89.
Belfast, Maine. Prepared by E. R. Humphreys, LL.D., of Boston, and by private study.

SARA GWENDOLEN FOULKE, ... *Hearer in Biology*, 1888–89.
Philadelphia, Pa. Prepared by Mr. and Mrs. Lewis M. Johnson's School, Phila., Pa.

FRANCES BIDDLE GARRETT, . . . *Group, Biology and Chemistry*, 1885–87.
Logan P. O., Philadelphia. Prepared by Miss Lily White's School, Germantown, Pa.

MARY RHOADS GARRETT, ... *Group*, ———, 1885–87, 1889–90.
Rosemont, Pa. Prepared by Miss Rachel Ashbridge's School, Philadelphia.

MARY ELOISE HOWARD, ... *Group, Latin and Mathematics*, 1889–91.
Norfolk, Va. Prepared by Miss Leach and Miss Wood's School, Norfolk, Va.

EMILY CUMMING HOWE, ... *Group, German and Greek*, 1887–89.
Princeton, N. J. Prepared by Mr. J. R. Bishop, of Princeton, N. J.

* Mrs. Wilson H. Pierce, 1889.
† Mrs. Henry M. Thomas, 1889.

ANNA HARRIS HOY, ... *Group, History and Political Science*, 1885-87.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

NELLIE MAY HULBERT, ... *Group*, ———, 1890-91.
Elyria, O. Oberlin College, 1887-90.

JOSEPHINE JACKSON, ... *Group, German and Latin*, 1889-91.
Richmond, Va. Prepared by St. Timothy's School, Catonsville, Md.

ELIZABETH BRINTON JANNEY, ... *Hearer in Greek and Latin*, 1889-90.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by J. W. Fairies, D.D., Philadelphia, Pa.

HATTIE ELIZABETH JONES, ... *Group, English and Greek*, 1888-90.
Amesbury, Mass. Prepared by Oak Grove Seminary, Vassalboro, Maine, and by Miss Case and Miss Hallowell's School, Philadelphia, Pa.

CAMILLA LEACH, ... *Hearer in English*, 1889-90.
San Francisco, Cal. Prepared by private study.

MARY HUNTER LINN, ... *Group, Latin, Italian and Spanish*, 1887-89.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa.

ANNIE LAURIE LOGAN,* *Group, Greek and Latin*, 1889-90.
St. Louis, Mo. Prepared by private study. Newnham College, Cambridge, England, 1890-91.

JESSIE LOUDERBACK, ... *Group*, ———, 1890-91.
New York City. Prepared by Miss Jandon's School, New York.

BELLA MABURY, ... *Group*, ———, 1890-91.
San José, Cal. University of the Pacific, 1884-89.

KATHLEEN R. MACFARLANE, . . *Hearer in Mathematics and Physics*, 1889-90.
Rosemont, Pa. Prepared by private study.

MARY LOUISE MACMILLAN, ... *Group*, ———, 1890-91.
Cincinnati, O. Wells College, 1888-90.

MARY ELIZABETH MILES, ... *Group, Greek and Latin*, 1888-89.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

AGNES LOUISE ORBISON, ... *Group, Biology and Physics*, 1886-88.
Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa. Missionary in Laharapur, India.

GRACE PARRISH, ... *Group*, ———, 1890-91.
Radnor, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia, and by Miss Florence Baldwin's School, Bryn Mawr, Pa. Students' Art League, New York City, 1891-92.

KATE O. PETERSON, ... *Group, Latin and* ———, 1888-89.
Brooklyn, N. Y. Prepared by Packer Collegiate Institute, Brooklyn. A.B., Vassar College, 1890. Teacher in Packer Collegiate Institute, Brooklyn, N. Y.

ADELINE MAYO RICHARDS, ... *Group*, ———, 1890—91.
Elizabeth, N. J. Prepared by Miss Randolph's School, Baltimore, Md., and by Mr. Young, Elizabeth, N. J.

THEODOSIA ROSALIE RUPLI, ... *Group, Greek and Latin*, 1890-91.
Washington, D. C. Prepared by High School, Washington, D. C.

FLORENCE RUSHMORE, ... *Group*, ———, 1885-86.
Plainfield, N. J. Prepared by Friends' School, Providence, R. I.

MARY JOHNSON SACKETT, ... *Group, Biology and Chemistry*, 1888-91.
Brooklyn, N. Y. Prepared by Adelphi Academy, Brooklyn, and by private study.

HARRIET FELL SEAL, ... *Hearer in French and Greek*, 1889-91.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, Pa., and by private study. Teacher of French in Ogontz School, Ogontz, Pa.

* Mrs. Oliver Farrar Emerson, 1891.

ANNA PEIRCE SHOEMAKER,* *Group, Biology and Chemistry*, 1887–89.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, Pa. Studied University of Pennsylvania, 1889–91.

MARGARET ARMSTRONG STEEL, *Group, History and Political Science*, 1886–89.
Port Deposit, Md. Prepared by private study.

ELIZA PULLAN STEPHENS, ... *Group, French and Latin*, 1888–90.
Trenton, N. J. Prepared by Friends' Central School, Philadelphia, Pa., and by private study.

LOUISA BRIER STEPHENS, ... *Group*, ———, 1889–90.
Cedar Rapids, Iowa. Prepared by Mr. George J. Brown and Mr. Alonzo Brown.

MARY STEPHENS, ... *Group, Biology and Chemistry*, 1887–90.
Cedar Rapids, Iowa. Prepared by Coe Preparatory School and College, Cedar Rapids, Iowa.

ELEANOR JANE STEVENSON, ... *German and History*, 1886–87.
Pittsburg, Pa. Graduate of Pennsylvania Female College, 1886.

ANNA VAUGHAN SWIFT, ... *Chemistry and English*, 1887–89.
Wilmington, Del. Prepared by Miss E. D. Fraser's School, Wilmington, Del., and by Mr. W. A. Reynolds of Wilmington.

MARY GRACE THOMAS,† . . . *Group, History and Political Science*, 1885–87.
Baltimore, Md. Prepared by Mr. Christie, Graduate Student, Johns Hopkins University.

SUSAN EVERETT THROOP, ... *Group, English and Latin*, 1890–91.
Worcester, Mass. Prepared by Mrs. Throop's School, Worcester. Harvard Annex, 1891–92.

EMMA PHILLIPS VAN NORDEN, ... *Group, Greek and Latin*, 1889–90.
New York City. Prepared by The Brearley School, New York City, and by private study.

ANNIE DE BENNEVILLE WAGNER, ... *Group*, ———, 1888–90.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

ANNA MARTHA WALKER, ... *Group, Greek and Latin*, 1889–91.
Glen Moore, Pa. Prepared by Darlington Seminary, West Chester, Pa., and by Miss Mary E. Stevens' School, Germantown, Pa.

MARGARET COOPER WHITALL,‡ . . *Group, Biology and Chemistry*, 1885–88.
Germantown, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

ELLEN A. WINSLOW, ... *Group*, ———, 1887–89.
Saccarappa, Maine. Prepared by Friends' School, Providence, R. I.

Students that have taken their Degree at Bryn Mawr College.

ALICE HOPKINS ALBRO, ... *Group, Biology and Chemistry.*
Fredonia, N. Y. Prepared by Fredonia State Normal School, N. Y. A.B., 1890. Teacher of Science, High School, Dunkirk, N. Y.

HELEN CULBERTSON ANNAN, ... *Group, History and Political Science.*
New York City. Prepared by Mrs. Comegys and Miss Bell's School, Chestnut Hill, Pa. A.B., 1891.

ALICE ELIZA ANTHONY, ... *Group, History and Political Science.*
South Manchester, Conn. Prepared by Friends' School, Providence, R. I. A.B., 1889.

* Mrs. Henry Ferris, 1890.
† Mrs. Thomas K. Worthington, 1888.
‡ Deceased, January, 1892.

EMILY FRANCES ANTHONY,* *Group, History and Political Science.*

South Manchester, Conn. Prepared by Friends' School, Providence, R. I. A.B., 1889.

EMILY GREENE BALCH, ... *Group, Greek and Latin.*

Jamaica Plain, Mass. Prepared by Miss Ireland's School, Boston, Mass. A.B., 1889. Bryn Mawr European Fellow, 1889–90; Collége de France and the Sorbonne, 1890–91.

CATHERINE E. BEAN,† *Group, English and German.*

San José, Cal. Classical Course, University of the Pacific, San José, 1884–85. A.B., 1889. Teacher of English in the Academic Department of the University of the Pacific, San José, 1889–90.

MARIA VOORHEES BEDINGER, ... *Group, Mathematics and Physics.*

Anchorage, Kentucky. Prepared by Bellewood Seminary. A.B., 1891. Teacher in Bellewood Seminary, Anchorage, Ky.

ELIZABETH MILLER BLANCHARD, ... *Group, Greek and Mathematics.*

Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa. A.B., 1889. Fellow in Mathematics, Bryn Mawr College, 1889–90. Teacher of Mathematics in The Bryn Mawr School, Baltimore, Md.

MARY MILES BLANCHARD, ... *Group, Biology and Chemistry.*

Bellefonte, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa. A.B., 1889.

EMILY LOUISA BULL, ... *Group, Greek and Latin.*

Oneonta, N. Y. Prepared by Oneonta Union School, Oneonta, N. Y. A.B., 1891. Graduate Student in Biology, Bryn Mawr College, 1891–92.

ESTHER F. BYRNES, ... *Group, Biology and Chemistry.*

Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, Pa., and by private study. A.B., 1891. Demonstrator in the Biological Laboratory, Vassar College.

EDITH CHILD, ... *Group, Greek and Mathematics.*

Newport, R. I. Prepared by Dr. W. S. Child, Newport, R. I. A.B., 1890. Teacher of Latin and Mathematics in Miss Case and Miss Hallowell's School, and in Miss Judkin's School, Philadelphia, Pa.

MABEL P. CLARK, ... *Group, English and Greek.*

New York City. Prepared by Miss Gibbons' School, New York City. A.B., 1889. Fellow in English, Bryn Mawr College, 1889–90; A.M., Bryn Mawr College, 1890. Reader in English, Bryn Mawr College.

JULIA COPE, ... *Group, Biology and Chemistry.*

Philadelphia, Pa. Prepared by Miss Burnham's School, Northampton, Mass. A.B., 1889. Secretary of Bryn Mawr College.

HELEN CECILIA COALE,‡ *Group, Biology and Chemistry.*

Baltimore, Md. Prepared by Miss Pindell's School, Baltimore. A.B., 1889.

HELENA STUART DUDLEY, ... *Group, Biology and Chemistry.*

Denver, Colorado. Massachusetts Institute of Technology, 1884–85. A.B., 1889. Teacher of Chemistry in the Packer Collegiate Institute, Brooklyn, N. Y.

LOUISE R. ELDER, ... *Group, Greek and Latin.*

Philadelphia, Pa. Prepared by Mrs. L. M. B. Mitchell's School, Philadelphia. A.B., 1889.

SUSAN BRALEY FRANKLIN, ... *Group, Greek and Latin.*

Newport, R. I. Prepared by Rogers' High School, Newport, R. I. A.B., 1889. Fellow in Greek, Bryn Mawr College, 1889–90; and Fellow by Courtesy, 1891–92.

ALICE ELEANORA GARRETSON, ... *Group, Greek and Latin.*

Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1890.

LEAH GOFF, ... *Group, Biology and Chemistry.*

Bryn Mawr, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1889. Demonstrator in the Biological Laboratory, Bryn Mawr College.

* Mrs. Frederick Robbins, 1891.

† Mrs. Isaac M. Coxe, 1891.

‡ Mrs. Benjamin Crew, 1890.

ALICE BACHE GOULD, ... *Group, Mathematics and Physics.*

Boston, Mass. Prepared by Miss Ireland's School, Boston, Mass. A.B., 1889. Massachusetts Institute of Technology, 1889-90; Newnham College, Cambridge, England, 1890-92.

EMELINE GOWEN, ... *Group, Greek and Latin.*

Mt. Airy, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1890.

JANE BOWNE HAINES, ... *Group, History and Political Science.*

Cheltenham, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa., and by Miss Creeth, of Germantown. A.B., 1891. Graduate Student in History and Political Science, Bryn Mawr College, 1891-92.

ELIZABETH HARRIS, ... *Group, Greek and Latin.*

Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1890. Fellow in Greek, Bryn Mawr College, 1890-91. Teacher of Greek and Latin in The Dutch Reform Collegiate Grammar School, New York City.

HARRIET FRAZIER HEAD, ... *Group, French and Latin.*

Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1891. Teacher of Latin in Mrs. E. L. Head's School, Germantown, Pa.

MABEL HUTCHINSON,* *Group, Greek and Latin.*

Des Moines, Iowa. Classical Course, Penn College, 1884-85. A.B., 1889.

CAROLINE LAWRENCE, ... *Group, History and Political Science.*

Saratoga Springs, N. Y. Art Student, Smith College, 1883-84; Special Student, 1885. A.B., 1889.

MARIAN WILHELMINA MACINTOSH, ... *Group, Greek and Latin.*

Philadelphia, Pa. Prepared by Miss Gibson's School, Philadelphia, Pa. A.B., 1890. Graduate Scholar at Bryn Mawr College, 1890-91.

MARY MCMURTRIE, ... *Group, History and Political Science.*

Philadelphia, Pa. Prepared by private study. A.B., 1889.

ETHEL PARRISH, ... *Group, History and Political Science.*

Radnor, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia, Pa. A.B., 1891.

MARGARET M. PATTERSON, ... *Group, Greek and Latin.*

Denver, Col. Prepared by Pension Lacorne, Paris, France, and by Denver High School. A.B., 1890.

MARY GRAFTON PATTERSON, ... *Group, French and German.*

Denver, Col. Prepared by Pension Lacorne, Paris, France, and by private study. A.B., 1888.

CAROLINE ELY PAXSON, ... *Group, French and German.*

New Hope, Pa. Prepared by Miss Lily White's School, Germantown, Pa. A.B., 1890.

ANNA POWERS, ... *Group, Greek and Latin.*

New York City. Prepared by Friends' Central School, Philadelphia, Pa. A.B., 1890. Teacher of Greek and Latin in Mrs. E. L. Head's School, Germantown, Pa.

HARRIET RANDOLPH, ... *Group, Biology and Chemistry.*

Philadelphia, Pa. Prepared by private study. A.B., 1889. Fellow in Biology, Bryn Mawr College, 1889-90; University of Zürich, 1890-92.

ANNA ELY RHOADS, ... *Group, Greek and Latin.*

Bryn Mawr, Pa. Prepared by Friends' School, Germantown, Pa., and by private study. A.B., 1889. Graduate student at Bryn Mawr College, 1889-90; University of Leipsic, 1890-91.

ELLA RIEGEL, ... *Group, History and Political Science.*

Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia. A.B., 1889.

EDITH F. SAMPSON, ... *Group, Biology and Chemistry.*

Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa. A.B., 1890. Graduate Student in Biology, Bryn Mawr College, 1891-92.

* Mrs. Henry Douglas, Jr, 1891.

LILIAN VAUGHAN SAMPSON, ... *Group, Mathematics and Physics.*

Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa. A.B., 1891. Holder of the Bryn Mawr European Fellowship, 1891-92. Graduate Student in Biology, Bryn Mawr College, 1891-92.

JANE SCOFIELD, ... *Group, Greek and Latin.*

Sandy Spring, Md. Graduate Mt. Holyoke Seminary, South Hadley, Mass., 1886. A.B., 1891.

KATHARINE MORRIS SHIPLEY, ... *Group, English and Latin.*

Cincinnati, Ohio. Prepared by Bartholomew English and Classical School, Cincinnati, O. A.B., 1890. Bryn Mawr European Fellow, 1890-91; University of Leipsic, 1890-91; Collége de France and the Sorbonne, 1891-92.

ALYS WHITALL PEARSALL SMITH, ... *Group, French and German.*

Philadelphia, Pa. Prepared by Miss Lily White's School, Germantown, Pa. A.B., 1890.

EMILY JAMES SMITH, ... *Group, Greek and Mathematics.*

Canandaigua, N. Y. Prepared by Mr. J. H. Lee and Mr. D. L. Satterthwaite of Canandaigua, N. Y. A.B., 1889. Girton College, Cambridge, England, 1889-90. Teacher of Greek in the Packer Collegiate Institute, Brooklyn, N. Y.

ANNE TAYLOR,* *Group, English and French.*

College Hill, Cincinnati, Ohio. Prepared by Belmont College, College Hill, Ohio. A.B., 1889.

MARGARET CHESTON THOMAS, ... *Group, French and German.*

Baltimore, Md. Prepared by Miss Pindell's School, Baltimore. A.B., 1889.

MARTHA GIBBONS THOMAS, ... *Group, Biology and Chemistry.*

Whitford, Pa. Prepared by private study. A.B., 1890.

LUELLA H. THORNE, ... *Group, Greek and Latin.*

Skaneateles, N. Y. Prepared by Skaneateles Union School and Academy, N. Y. A.B., 1890. Teacher in Jamaica Plain School, Long Island.

EMILY RACHEL VAIL. *Group, Greek and Latin.*

Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1891.

SOPHIA WEYGANDT, ... *Group, Greek and Latin.*

Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1889.

KATHERINE TABER WILLETTS, ... *Group, Greek and Latin.*

New York City. Prepared by Miss Anna C. Brackett's School and by Mrs. Julia J. Irvine of New York City. A.B., 1890.

MARIAN A. WRIGHT, ... *Group, German and Latin.*

Germantown, Pa. Special Student, Smith College, 1883-84. Prepared by Miss Florence Baldwin of Bryn Mawr, Pa. A.B., 1891.

* Mrs. Frank H. Simpson, 1891.

Bryn Mawr College.

Introductory Statement.

Bryn Mawr College, situated at Bryn Mawr, Pennsylvania, ten miles from Philadelphia, was endowed by Dr. Joseph W. Taylor, of Burlington, New Jersey, who proposed to found an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education that are so freely offered to young men." The site of the college was purchased and the buildings were begun during the lifetime of the founder, who died in 1880. In the same year the college was incorporated by the authority of the State of Pennsylvania, and invested with power to confer degrees. A circular of information was issued by the Trustees in 1883. A President and a Dean of the Faculty were elected in the spring of 1884. During the remainder of the year 1884 plans were matured and appointments made in the Faculty; in the autumn a second circular of information was issued, and an office at which to receive applications was opened in Philadelphia. The courtesy of the presiding officers and instructors of existing universities and colleges facilitated an acquaintance with the prevalent collegiate systems; and the domestic organisation of the women's colleges, Vassar, Smith, and Wellesley, received careful consideration. To the Johns Hopkins University acknowledgment is especially due, since from it has been borrowed the system of major and minor electives in fixed combination. In the spring of 1885 the first program was issued, and the college opened for instruction in the following autumn with forty-four students.

Admission.

Three classes of persons are admitted to the lectures and class-work of the college:—graduate students, undergraduate students, and hearers.

Graduate Students.

Graduate students must have presented a diploma from some college of acknowledged standing. They may pursue the ad-

vanced or graduate courses offered by the college,* although the instructors in the several departments may require of them certain introductory or auxiliary studies; they are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations, from the instructors. Their needs will be considered in the arrangement of new courses of lectures.

Fellows. The most distinguished place among graduate students will be held by the Fellows. Six Fellowships are awarded annually —one in Greek, one in Latin, one in English, one in Mathematics, one in History or Politics, and one in Biology; and in and after the academic year 1893–94 there will be awarded three additional fellowships, one in Teutonic Philology, one in Romance Languages, and one in Chemistry. These fellowships, which entitle the holder to free tuition, a furnished room in the college buildings, and the sum of three hundred dollars yearly,† are intended as an honor and are awarded as a recognition of previous attainments. They are open to graduates of Bryn Mawr College, or of any other college of good standing. No one may compete that has not a college degree or a certificate of prolonged study under well-known instructors; and, generally speaking, the Fellowship will be given to the candidate that has studied longest or whose work affords the best promise of future success. All applications should be made as early as possible, and must be made by the 15th of April preceding the year for which the Fellowship is desired. Blank forms will be forwarded to the applicant. A definite answer will be given within four weeks from the last date fixed for application. The holder of a Fellowship is expected to show, by the presentation of a thesis, or in some other manner, that her studies have not been without result. All Fellows may study for the degree of Doctor of Philosophy, the Fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts. Those that continue their studies at the College after the expiration of the Fellowship, may, by vote of the Trustees, receive the rank of Fellows by Courtesy.

* For the convenience of graduate students the courses belonging to the graduate departments of the college are reprinted from this program in a separate pamphlet, which may be obtained by applying to the Secretary.

† Board will be charged at the regular college rates of $150 for the scholastic year.

Undergraduate Students.

Undergraduate students must have fulfilled the requirements for matriculation. The studies leading to the degree of Bachelor of Arts are stated on pages 33–34. Those students that do not wish to study for a degree are enrolled as special students; they will, nevertheless, in the event of a change of plan, be credited with such of their studies as may have coincided with the studies leading to a degree. All special students must have passed the examination for matriculation. Attention is called to the fact that the Group System enables all candidates for a degree to specialise in one or more subjects.

Special Students.

Hearers.

Hearers will be excused from passing the matriculation examination; but they will be strictly distinguished from matriculates, and will be entitled to reside in the college only when by so doing they exclude no matriculated student, and when the courses pursued by them are equivalent in number to those ordinarily pursued in each year by candidates for a degree. They must be women of at least twenty-five years of age, and must furnish proof that they have at some time pursued the studies included in the matriculation examination. They must satisfy the several instructors that they can profit by the courses that they desire to follow, and their admission to recitations, examinations, and laboratory exercises, will depend on the express consent of the instructor in charge. Hearers differ, moreover, from special students in that they are not recognised by the college, and can receive only such certificates of collegiate study as may be given them by the several instructors. They cannot receive degrees.

Examination for Matriculation.

The examination for matriculation must be taken by all that wish to pursue their studies at the college, either as candidates for a degree or as special students.* The examination

* But candidates that present a certificate of honorable dismissal from some college or university of acknowledged standing, or candidates that have passed the Harvard University Examinations for Women held in Cambridge, New York, and Cincinnati will be admitted, whenever the examination has covered the same or equal ground in the subjects required for matriculation in the college, but not more than one calendar year and the summer recess must have elapsed between the two parts of the examination. For regulations concerning "hearers," see above.

The following subjects in the Harvard University Examinations for Women are accepted as equivalents: All the "elementary studies" except one language (which may be German *or* French *or* Greek, but must not be Latin), and the "advanced studies" in the three languages chosen; Latin composition; and, if Greek be taken, Greek composition. The "elementary studies" in Latin, Greek, French or German will not be accepted as a substitute for any part of the examination in these subjects, unless supplemented by the "advanced studies."

In no other cases will certificates be accepted.

for matriculation will also be open to those that wish to take it as a test of proficiency in elementary studies, but have no intention of entering the college.

Candidates may divide the examination between two successive years; if, however, more than one calendar year and the summer recess elapse between the two parts of the examination, the first part of the examination must be repeated.

Blank forms of application for admission should be obtained from the President.

Examinations are held in June and September of every year at Bryn Mawr College; and in June of every year, examinations are held also in Baltimore. Examinations may also be held in June, by request, in Germantown, Boston, Cincinnati, California, and in London *or* Paris, and will be conducted by the Honorary Corresponding Secretaries, who will also answer enquiries in regard to the examinations or the College.

Tabular Statement.—All candidates for matriculation *must* be examined in the following three groups:

I.	II.	III.
Mathematics { (Arithmetic, Algebra,) 2. Plane Geometry, 1.	*Latin* { (Grammar and Composition, Cæsar and Cicero,) 2. Virgil and sight reading, 1.	History, 1. English, 1. Science, 1.

All candidates for matriculation *must* be examined in one of the following groups:

IV.	IV.	IV.
Greek { Gram. and Comp., Xenophon, Iliad and sight reading, 1. } 2. *and* *French* { Grammar, Prose, Poetry, } 3.	*Greek* { Gram. and Comp., Xenophon, Iliad and sight reading, 1. } 2. *and* *German* { Grammar, Prose, Poetry, } 3.	*French* { Grammar, Prose, Poetry, } 3. *and* *German* { Grammar, Prose, Poetry, } 3.
or	*or*	

The candidate *may* be examined in the following subjects, and if not examined, must pursue them in college:

Advanced Mathematics { Solid Geometry, Plane Trigonometry.

A fourth language, { **Greek* (as above) *or* *French* (as above) *or* *German* (as above)

The subjects in which the candidate for matriculation *must* be examined are divided, for convenience of marking, into fifteen sections. It will be observed that each lan-

* Students that have omitted Greek in the examination for matriculation may substitute for the beginners' course in Greek the minor course in Latin, see page 47.

guage other than English is counted as three sections. Groups I., II., and III. contain three sections each; group IV. contains six sections. The figures attached to the subjects show the number of sections contained in each subject; where a bracket precedes the figure, the subjects enclosed by the bracket cannot be separated in the examination. Should the candidates pass in fewer than three sections in the first division of the examination, the entire examination must be repeated; but the three sections need not, except where this is indicated by the brackets, belong to one and the same group. Solid Geometry and Trigonometry cannot be substituted for any part of the fifteen sections.

I. Mathematics.—(1) and (2) *Arithmetic and Algebra.* (3) *Plane Geometry.* *Mathematics.*

The examination in Algebra will comprise Elementary Operations; Quadratic Equations; Ratio; Proportion; Variation; Arithmetical and Geometrical Progressions. A part of the paper will be devoted to problems in Algebra and Arithmetic, those in Arithmetic being simple practical questions in Decimals, Percentage, Interest, and Proportion; in these, Algebraical Symbols and Operations may be used to any extent.

Lock's Arithmetic (*American Edition*), C. Smith's Elementary Algebra, and Lock's Trigonometry for Beginners [Macmillan] are recommended.

All candidates that do not, in addition to the above, present *Solid Geometry* and *Trigonometry* must pursue these branches in the college and pass an examination in them before receiving a degree. It is especially recommended that those intending to elect mathematical courses should pass the entire matriculation examination in mathematics. These candidates are advised to confine themselves to Algebra; Plane Geometry of the straight line and the circle; Solid Geometry and Trigonometry. More benefit will be derived from a thorough acquaintance with the pure geometrical methods, than from a little knowledge of Analytical Geometry.

Students whose matriculation examination has included either Solid Geometry, or Trigonometry, or both, will be credited with the time which others must subsequently spend upon these studies.

II. Latin.—(1) *Grammar and Composition.* (2) *Cæsar*, Gallic War, Books I.–IV. (or, if desired, *Ovid*, Metamorphoses, two thousand lines). *Cicero*, seven orations, (*pro Archia poeta, de imperio Cn Pompei, pro Marcello*, and the four orations *in Catilinan.*) (3) *Virgil*, Æneid, Books I.–VI. (or the Eclogues and five books of the Æneid). *Latin.*

There will be questions testing the candidate's practical knowledge of grammar, including prosody, and translation of English into Latin.

The candidate will be expected to translate at sight easy passages, with due allowance for unusual words.

Equivalents will be accepted to some extent, but all candidates must have read (*a*) Cicero, at least four orations, (*b*) Virgil, at least three books of the Æneid.

The so-called Roman method of pronunciation, as explained in Allen and Greenough's Latin Grammar, is recommended.

As many schools are introducing the "natural method" as a substitute for thorough grammatical training, attention is called to the fact that special stress will be laid on an accurate and ready knowledge of grammatical forms. A knowledge of paradigms and parts of irregular verbs will be insisted upon.

The examination in Latin may be divided in the following manner only: (*a*) Grammar, Composition, Cæsar, and Cicero; (*b*) Virgil and sight reading. Candidates are advised, whenever possible, to try the whole Latin examination at one time.

III. History.—(1) The outlines of the History of England and the United States; *or* the outlines of the History of Greece and Rome. *History.*

Johnston's History of the United States, and The United States: its History and Constitution; Ransome's History of England, *or* Gardiner's English History for Schools;

Oman's History of Greece (Longman's, N. Y.); Leighton's History of Rome, *or* Allen's History of the Roman People are recommended.

English. English.—(1) The candidate will be required to write a short English composition, correct in spelling, grammar, punctuation, and general arrangement, and to correct specimens of bad English.

In 1892 the subject of the composition will be taken from one or more of the following works: *Shakespeare*, Macbeth and The Tempest; *Chaucer*, The Knight's Tale; *Milton*, Comus; *Lamb*, Essays of Elia.

In 1893 candidates must be familiar with *Shakespeare*, Julius Cæsar, and Merchant of Venice; *Chaucer*, The Clerk's Tale; *Ruskin*, Sesame and Lilies; *Addison*, Sir Roger de Coverley Papers.

The books recommended (for the years 1892 and 1893), by the Commission of Colleges of New England, will be accepted as equivalents.

Candidates are required to be familiar with the subject-matter of these works. Much stress will be laid on an intelligent knowledge of the elements of English composition and grammar, and no candidate can be successful in passing the examination without familiarity with the essentials of punctuation and arrangement. Abbott's *How to Write Clearly* is recommended as an aid to the knowledge of correct arrangement.

Science. Science.—(1) The elements of one of the following sciences:—Physics, *or* Chemistry, *or* Botany, *or* Physiology, *or* Physical Geography.

Gage's Physics, Remsen's Introduction to the Study of Chemistry (Briefer Course), Bessey's Essentials of Botany, Martin's Human Body (Briefer Course), and Russell Hinman's Physical Geography are recommended.

IV. Two of the following languages:

Greek. Greek.—(1) *Grammar and Composition.* (2) *Xenophon*, Anabasis, Books I–IV. (3) *Iliad*, Books I–III.

White's First Lessons in Greek and Jones' Exercises in Greek Prose, or equivalents, are recommended.

There will be questions on grammar suggested by the text, and translation at sight of easy passages from Xenophon and the Iliad, with due allowance for unusual words.

Equivalents will be accepted to some extent, but all candidates must have read (*a*) Homer, at least two books of the Iliad, (*b*) Xenophon, at least two books of the Anabasis or Memorabilia.

The examination in Greek may be divided in the following manner only: (*a*) Grammar, Composition, and Xenophon; (*b*) Iliad and sight reading.

French. French.—(3) The examination in French will have three divisions, one to test the candidate's knowledge of pronunciation and ordinary grammatical forms, the other two her power to read at sight ordinary French prose and verse.

For the examination in reading no texts are assigned, the examination being intended to test the candidate's ability to read any ordinary French whatsoever. Candidates preparing for these examinations are advised to acquire as large a vocabulary as possible. They are further advised in their study of verbs to concentrate their attention on the regular verbs, the auxiliaries *être*, *avoir*, and such important irregular verbs as *aller*, *devoir*, *dire*, *faire*, *mettre*, *prendre*, *pouvoir*, *vouloir*, *tenir*, *venir*, *voir*, *écrire*, *lire*, *croire*, *boire*, and the typical verbs *conduire*, *craindre*, *paraître*, *partir*, and to acquire a fair knowledge of the use of the various past tenses and of the rules of the subjunctive.

The examination in French cannot be divided.

German.—(3) The examination in German will be precisely similar to that in French, and will test the candidate's pronunciation, knowledge of ordinary grammatical forms, and ability to read ordinary German at sight. *German.*

The examination in German cannot be divided.

The candidate may omit one of the three languages, Greek, French, or German, selecting Greek and French, *or* Greek and German, *or* French and German.

All subjects potentially included in the examination for admission are regarded by the college as preparatory and non-collegiate. The college course of instruction in mathematics, for example, does not include but presupposes trigonometry; the courses in French and German presuppose a reading knowledge of these languages. *Remarks on Examination for Matriculation.*

It is therefore to the interest of every student to offer, at entrance, advanced mathematics, and if possible all four languages; remembering that even to fail in such of these examinations as are not strictly obligatory, will not affect the candidate's collegiate standing, and that to pass them successfully would leave her nearly free for elective study under the Group System and for true collegiate work. Great pains have been taken in the organisation of the collegiate courses; and it is not desirable that the time of students within the college should be needlessly withdrawn from these and spent upon preparatory work.

Studies Leading to the Degree of Bachelor of Arts.

No student will be graduated who does not at the time of graduation possess a reading knowledge of French and German and some acquaintance with Latin. In the last semester before graduation, an oral examination will be held to test the candidate's power of reading French and German at sight. The college provides beginners' classes, five times weekly throughout one year, for those students who in the examination for matriculation may have omitted Greek, French, or German; but attendance on these classes is not obligatory, the student being free to make good her deficiencies by private reading. Students that have omitted Greek may substitute for the beginners' course in Greek the minor course in Latin.

The following course of study must be pursued by every candidate for the degree of Bachelor of Arts.

Required Studies.

English, five hours a week for two years.

Seicnce, or *Scienee and History*, five hours a week for two years; that is, any one of the major courses in Science, or any two minor courses in Science; or any one of the minor courses in Science, together with either one of the minor courses in History or a minor course in Political Science.

Philosophy, five hours weekly for a year.

Two Major Courses, of five hours weekly for two years each, constituting one *Group.* of the following Groups: Any language with any language; Mathematics

with Physics, or Mathematics with Greek or Latin; any science with any science; History with Political Science.

Free Electives. *Free Electives,* five hours weekly for a year and a half, to be chosen by the student. It should be observed that a single study may be taken as a Free Elective, without electing the group that includes it. Students wishing to combine Physics with either Chemistry or Biology must take at least a half year of Mathematics as a Free Elective.

Every student is expected to consult the Dean of the Faculty in regard to the details and best arrangement of her various studies, and must register her course of study at the Dean's office before entering upon college work.

The students are not divided into the traditional college classes, nor is there any time set for graduation; in order to pursue a wider course of reading in connection with single subjects, or to attend a greater variety of lectures, the ablest students may choose to defer graduation, and, on the other hand, the usual period of collegiate study may be abridged; personal considerations only will determine the time spent in completing the studies required for a degree. Nevertheless, these requirements constitute strictly a four years' course; that is to say, if the usual time given to lectures and class-work be computed at fifteen hours weekly, a student that passed the ordinary matriculation examination, and availed herself of the preliminary courses of the college on the subjects which that examination did not include, would in all cases require precisely four years.

The Bryn Mawr European Fellowship. The Bryn Mawr European Fellowship will be awarded annually to a member of the graduating class of Bryn Mawr College on the ground of excellence in scholarship. The holder will receive the sum of five hundred dollars, applicable to the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the college.

Studies Leading to a Second Degree. Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may, at their discretion, enroll

themselves as candidates for the Degrees of Doctor of Philosophy and Master of Arts. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

The Degree of Doctor of Philosophy and Master of Arts.

The degree of Doctor of Philosophy may be conferred upon graduates of Bryn Mawr College, and upon graduates of other colleges who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may have been recommended.

The candidate must have pursued for three years, after having received the first degree, a course of liberal (non-professional) study at some college or university approved by the Faculty, and have spent at least two of these years at Bryn Mawr College. She must have written, on some subject connected with her chief subject of study, a dissertation that bears satisfactory evidence of original research, and must pass an oral examination in the presence of the members of the Faculty on one major or chief subject, and a written or a written and an oral examination on two minor subjects. In special cases where one minor subject is substituted for the two minor or secondary subjects, the time spent on the one secondary subject must be equal to the time usually spent on the two minor subjects, and every combination of major and minor subjects for the final examination must have been submitted to the Dean, by whom, after due consultation with the heads of the departments concerned, it will be submitted to the Faculty.

The candidate may be required to pursue certain auxiliary studies in connection with the subject that she has elected; and the degree of Doctor of Philosophy will be given to no one who cannot read French and German, or who is unacquainted with Latin and Greek. The dissertation must be printed within six months after the final examination; and before the candidate is admitted to the examination the sum of fifty dollars must be deposited at the Secretary's desk as a guarantee that it shall be printed. The degree of Doctor of Philosophy will in no case be conferred by the college as an honorary degree.

The Degree of Master of Arts.

A separate degree of Master of Arts will be conferred on graduates of Bryn Mawr College. The candidate for this degree must have studied at Bryn Mawr College for at least one year

after receiving the degree of Bachelor of Arts, and must have pursued either undergraduate courses not previously taken, amounting to twelve hours weekly, or graduate courses equivalent to twelve hours weekly. She may have devoted herself exclusively to a single subject, and must have taken in some one subject the equivalent of a five-hour course. If the courses taken are undergraduate courses, the student must pass the usual examinations with credit; if they are graduate, she must pass either a written examination, or an oral examination in the presence of the members of the Faculty, as may be preferred by the heads of the departments in which she has studied.

Expenses. The charge for tuition is one hundred dollars a year, irrespective of the number of courses attended, or of the actual time of attendance. It is the same for undergraduate students, graduate students, and hearers, and is payable in advance. An additional charge of fifteen dollars a year is made for materials in every laboratory course of five hours weekly throughout the year.

A special exception will be made in favor of non-resident medical students and physicians, who will be charged for a single course in chemistry or biology fifty dollars, and for two courses one hundred dollars, the laboratory charges being the same for them as for other students. A course is held to be five hours weekly of lectures and class-work throughout the year.

Residence. Residence in the college buildings is optional. Of the students in daily attendance at the lectures and class work of the college, some have always lived in Philadelphia, or in the neighborhood of Bryn Mawr; others have resided in the college for five days of the week. The expense of board and residence in the college halls is two hundred and seventy-five dollars, three hundred dollars, or in special cases three hundred and twenty-five or four hundred dollars, according to the room or rooms occupied by the student. Of this sum one hundred and fifty is the charge for board, and is payable half-yearly in advance; the remainder is room rent, and is payable yearly in advance. Room rent includes all expense of service, heating and light, except open fires and laundry work.

The health of the students is under the charge of Dr. Ida E. Richardson, a practising physician of Philadelphia, who visits

the college every week, and can then be consulted by all the students free of charge.

Plans of Merion Hall, Radnor Hall and Denbigh Hall, with a full account of the halls and tariff of rooms, may be obtained by application to the Secretary of the College. Each of these halls has its separate kitchen and dining hall, provides accommodations for about fifty students, and is under the charge of a resident Mistress. Since the demand for college rooms is very great and every room unnecessarily reserved may prevent some other student from entering college, application for rooms should be made as early as possible, and must be accompanied by a deposit of fifteen dollars, which will be deducted from the first college bill.

The rooms are completely furnished. No lamps, towels, table napkins, sheets or supplies of any kind need be brought by the student. No part whatever need be taken by the student in the care of her own room.

There are open fire-places in nearly all the studies, but the rooms will be sufficiently heated by steam. A fixed annual charge ($18 for one dozen pieces a week) is made for washing (see the description of Merion Hall, Radnor Hall and Denbigh Hall) when students prefer to have their washing done in the college. Students that remain at the college during the winter and spring vacations will be charged seven dollars, or eight and a half dollars, weekly, according to the rooms occupied. No charge is made for sending meals to students that remain in their rooms by the advice of the physician or of the mistress of the hall.

The charge for tuition is accordingly $100 a year, payable in advance.

The charge for residence in the college halls, exclusive of board, is $125, $150, $175, (or in special cases, $200, $250) a year, payable in advance.

The charge for board is $150 a year; one half payable in advance.

The charge for board, residence and tuition is, therefore, $375, $400 or $425 (or in special cases $450, $500) a year; the additional charges are $15 for every laboratory course of five hours weekly, not more than one laboratory course being required of candidates for a degree.

The Bryn Mawr Students' Educational Fund was founded by the class of 1890 for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed will be distributed by the college in the form of partial aid, and as a loan. It will be applied to the assistance of those students only who have attended courses in the college for at least one year.

Two Partial Scholarships of $200 each will be open to members of the Society of Friends that are unable to pay the full charge for tuition and residence. When there

are more than two applicants the candidates will be selected by competitive examination; in all cases graduate students will be preferred, and in no case can the scholarship be held by any one that has not passed the matriculation examination with credit. Three scholarships entitling the holder to free tuition and residence for the space of one year will be awarded annually to the graduates of Earlham, Guilford and Penn Colleges respectively, who, in the preceding year, have completed the course of those colleges with most distinction.

INSTRUCTION.

Libraries. The fact that the college is at a distance of only ten miles from Philadelphia, which may be reached by half-hourly trains in from twenty to thirty minutes, enables the student to make use of all the resources of the libraries of Philadelphia, as well as of those of the College proper.

The College Library, accordingly, will remain as far as possible a library for special study. There are at present on its shelves about nine thousand bound volumes, and the sum of three thousand dollars is expended yearly for books under the direction of the heads of the several collegiate departments. Ninety-five scientific, literary, and philological periodicals and reviews in the English, German, French, Italian and Swedish languages, are taken by the library, as follows:

Academy; Acta Mathematica; American Chemical Journal; American Journal of Archæology; American Journal of Mathematics; American Journal of Philology; American Journal of Psychology: American Journal of Science; American Naturalist; Andover Review; Anglia; Annalen der Physik und Chemie; Archiv für Anatomie und Physiologie; Archiv für die Gesammte Physiologie; Archivio Glottologico Italiano; Arkiv für Nordisk Filologi; Athenæum; Atlantic Monthly; Beiträge der Deutschen Sprache und Litteratur; Beiträge zur Kunde der Indogermanischen Sprachen; Bibliotheca Mathematica; Biologisches Centralblatt; Bulletin de Correspondence Hellénique; Century Magazine; Chemical News; Classical Review; Contemporary Review; Coöperative Index to Periodicals; Deutsche Litteraturzeitung; Dialect Notes; Electrician; Englische Studien; English Historical Review; Fortnightly Review; Forum; Germania; Göttingen Gelehrte Anzeigen; Harper's Magazine; Hermes; Historische Zeitschrift; Indian Antiquary; Jahresbericht über die Alterthumswissenschaft; Jahresbericht über die Fortschritte der Chemie; Johns Hopkins University Studies; Journal für der reine u. Angewandte Mathematik; Journal für Practische Chemie; Journal of the Chemical Society; Journal of the Microscopical Society; Journal of Philology; Journal of Physiology; Library Journal; Library Notes; Literarisches Centralblatt; Literary News; Literaturblatt für Germ. u. Rom. Philologie; Mathematische Annalen; Messenger of Mathematics; Mind; Modern Language Notes; Mittheilungen der Archæologischen Instituts; Mittheilungen der Englischen Sprache und Litteratur; Monatshefte für Chemie; Nachrichten von der Königlichen Gesellschaft der Wissenschaften; Nature; Neue Jahrbücher für Philologie u. Pädagogik; Nineteenth Century; Philologische Wochenschrift; Philosophical Magazine; Political Science Quarterly; Quarterly Journal of Economics; Quarterly Journal of Mathematics; Quarterly Journal of Microscopical Science; Quarterly Review; Quellen und Forschungen; Revue Historique; Rheinisches Museum für Philologie; Romania; Romanische Forschungen; Science; Scribner's Magazine; Spectator; Westminster Review; Wochenschrift für Klassiche Philologie; Zeitschrift für Deutsches Alterthum; Zeitschrift für Deutsche Philologie;

Zeitschrift für Physikalische Chemie; Zeitschrift für Romanische Philologie; Zeitschrift für Vergleichende Sprachforschung; Zoologischer Anzeiger.

The library is open daily from eight A.M. to ten P.M., and books may be taken out by the students during these hours.

There are in Philadelphia the following important libraries:

The *Philadelphia Library*, which contains about 145,000 volumes. The library will at all times be open to the students for consultation; and students can obtain books on the shares held by the officers of the college. Private subscription, $12 a year for eight volumes, or $10 for nine months.

The *Mercantile Library*, which contains 150,000 volumes. Students can obtain books on the shares held by the College Library. Private subscription, $6.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains 30,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

The Group System.

It is much to be desired that all undergraduate students should enroll themselves as candidates for the degree of Bachelor of Arts, and therefore that they should understand the precise scope and nature of the studies leading to that degree, and the significance of the Group System. A proper understanding of the Group System is, moreover, essential to an understanding of the distribution and arrangement of the courses of instruction.

In all departments as yet organised there is a course of five hours a week for two years, called a Major Course. Whenever one year of this course is of such a nature that it can be taken separately, it is marked as a Minor Course. It is required of every candidate for a degree to take two such major courses as shall be homogeneous, or shall complete each other, and major courses which fulfil this condition are designated as Groups. It is meant that the student, under this system, should lay the foundations of a specialist's knowledge; and the Required Studies, namely, English, philosophy, science and history, are intended in part to supplement the Group, and in part to ensure a more liberal training than could be achieved did every student combine elective studies at pleasure. The two years' required course in English serves as a general introduction

to the study of language and of comparative literature. The required two years in science, or in science and history, permit the student of chemistry and biology to pursue both branches of the biological course, or to take a major course in physics; and they ensure to the student of history and of language, for one year at least, the same kind of instruction and discipline as is received by the scientific student. The one year's course in philosophy is a general introduction into the study of the laws, conditions, and history of thought.

Tabular Statement.

The "Minor Courses" in the following table are known as the Required Studies; the "Two Major Courses" as the Group. All studies whatsoever fall under one of these three heads, Required Studies, Group, or Free Electives.

*Minor Courses (Five hours weekly for One Year Each).**

1. and 2.	3.	4.	5.	†[6.]	‡[7.]
English. *Two Courses.*	Philosophy.	Science, Physics, or Chemistry, or Biology.	Science or History, or Politics.	French, or German, or Greek (or Minor Latin).	Solid Geometry and Trigonometry.

Two Major Courses (Five hours weekly for Two Years Each).

Constituting any one of the following groups:

I.	II.	III.	IV.	V.
Any language with any language.	Any science with any science.	Mathematics with Greek or Latin.	Mathematics with Physics.	History with Political Science.

Free Electives.

Five hours weekly for a year and a half in any subject or subjects the student may elect.

The following may serve as examples of some of the many combinations of studies that may be made by those candidates for a degree, who wish to specialise as far as possible in particular departments.

Classics. *As Required Studies,* English, Philosophy, Science (Physics,

* Except 7. (*One-half year.*)

† See page 33, under "Studies leading to the degree of Bachelor of Arts."

‡ See page 31 and page 67, under "Mathematics."

Chemistry, or Biology), Ancient History, [French or German]. *As a Group,* Greek and Latin. *As Free Electives,* advanced Greek and Latin.

Modern Languages (other than English). *As Required Studies,* English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History, [Greek, French, German, or Minor Latin]. *As a Group,* French and German, or French, Spanish and Italian. *As Free Electives,* Spanish or Italian.

English. *As Required Studies,* English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History, [Greek, French, German, or Minor Latin]. *As a Group,* French and English, or Greek and English. *As Free Electives,* German or Latin.

Mathematics (with Latin). *As Required Studies,* English, Philosophy, Physics, Ancient History, [Greek, French, German, or Minor Latin]. *As a Group,* Mathematics and Latin. *As Free Electives,* Advanced Mathematics.

Mathematics (with Physics). *As Required Studies,* English, Philosophy, Chemistry, Biology, [Greek, French, German, or Minor Latin]. *As a Group,* Mathematics and Physics. *As Free Electives,* Advanced Mathematics, or Advanced Physics.

History. *As Required Studies,* English, Philosophy, any Science, any language (Greek, Latin, English, German, French, Italian, or Spanish), [Greek, French, German, or Minor Latin]. *As a Group,* History and Political Science. *As Free Electives,* Advanced History, or Advanced Political Science.

Science. *As Required Studies,* English, Philosophy, Physics, Botany, [Greek, French, German, or Minor Latin]. *As a Group,* Chemistry and Biology. *As Free Electives,* Physics (second year); or advanced work in Biology or Chemistry.

The following combinations may be adopted by those who wish to pursue a major course in History or Science, yet do not wish to elect an historical or a scientific group.

I. *As Required Studies,* English, Philosophy, any Science, Ancient History, [Greek, French, German, or Minor Latin]. *As a Group,* any Language with any Language, or Chemistry with Biology or Physics. *As Free Electives,* Modern History.

II. *As Required Studies,* English, Philosophy, Physics, Chemistry, [Greek, French, German, or Minor Latin]. *As a Group,* any Language with any Language. *As Free Electives,* second year in Chemistry, or one year in Biology.

Since the time of graduation is determined only by the completion of the prescribed course, there is an entire freedom from over-pressure. All matriculated students may receive the degree of Bachelor of Arts when the prescribed course of study has been satisfactorily completed. On the other hand, as is shown by the recognition of special students, it is not required of any

one to apply for a degree; and no degree will be conferred unless the course has been completed with credit.

Courses of Study. There will be offered each year a minor or five-hour course in Philosophy, and major or two-year courses of five hours weekly in the following subjects: Greek, Latin, English, German, French, Italian, Spanish, History, Political Science, Mathematics, Physics, Chemistry, and both branches of Biology.

Graduate courses are offered in Sanskrit and Indo-European Philology, Greek, Old French, Italian, Spanish, and other Romance Languages, Gothic and Teutonic Philology, Norse, Old High German, Middle High German, Old Saxon, Anglo-Saxon, English Literature, Celtic, Hebrew, Aramaic, Assyrian, Biblical Literature, History, Political Science, Mathematics, Physics, Chemistry, Physiological Chemistry, Biology, and Physiological Psychology.

Courses in Language and Literature. The courses in language and literature are meant, first of all, to be complete in themselves, and extensive enough to meet the needs of special students, and secondly, to facilitate the study of comparative philology or of comparative literature. Whenever it has been practicable, as in all the modern languages, one half of the major course has been devoted to strictly linguistic studies, and the other half to the history of literature. In the major courses in Greek and Latin, the customary text-reading will be supplemented by lectures on the history of literature; the advanced course in Greek will ultimately be constructed on the model of a major course, one year being devoted to comparative philology and Sanskrit, and one to literary studies and the reading of difficult texts. Courses of parallel reading will be required of all students of language and literature, precisely as laboratory work is required of the students of chemistry or biology; these courses are intended to acquaint the students with the works of numerous authors, and it is especially hoped that students of Greek and Latin will, by this means, accustom themselves to read these languages constantly and without assistance.

The courses in ancient and modern languages will be of equal difficulty, and will be placed on a footing of equality. The traditional separation between ancient and modern languages has been disregarded, because, although strictly classical stu-

dents may always be inclined to combine Greek and Latin, there is, nevertheless, no modern literature of which the study may not fitly be preceded, or supplemented, by the study of Latin or Greek.

Lectures.

It is the object of the lectures to give a clear and succinct statement of facts and principles; to enumerate and criticise with frankness hand-books, authorities, and editions; to touch upon minor or far-lying points with such distinctness as may enable the student to investigate them intelligently at some future day; to bring the student's knowledge down to date, and to inform her, step by step, what things have been definitely ascertained and what things remain to be investigated. It is intended that the notes taken on these lectures, in addition to their immediate practical use, shall be of lasting value for reference, and be the starting-point, or at least the schedule, of studies to be undertaken subsequently. Every isolated student knows how difficult it is to be initiated into the modern scholastic movement otherwise than orally; and, therefore, in addition to the lectures, the several instructors will appoint certain hours in which the students may consult them freely.

The lectures will be accompanied by class work, and by frequent examinations; they will be strictly special, not popular.

The Professors or Associates appointed are the recognised heads of their departments, and only such instructors have been chosen as are qualified to direct both graduate and undergraduate work.

Courses of Instruction.

The undergraduate and graduate courses offered in the years 1891–92 and 1892–93 are as follows:

ANCIENT LANGUAGES.

Sanskrit, Greek, and Latin.

Professors and Instructors: Dr. Edward W. Hopkins, Dr. Paul Shorey, Dr. Herbert Weir Smyth, Dr. Gonzalez Lodge.

Sanskrit and Comparative Philology.

The instruction in Sanskrit and Comparative Philology is under the charge of Dr. Edward W. Hopkins, Professor of Greek, Sanskrit and Comparative Philology.

Lectures introductory to Comparative Philology, Dr. Hopkins.
Once weekly throughout the year.

This course is open also to undergraduates in their fourth year.

Lectures on Comparative Philology, and Philological Seminary, Dr. Hopkins.
Once weekly throughout the year.

Students entering this course are expected to be familiar with German and French. A short preliminary course in Sanskrit will also be of great aid to the student. The lectures on Comparative Philology will treat of the connection of the Greek and Latin languages with the related languages of the Aryan group, first, phonetically, secondly, from the point of view of grammatical forms, and lastly from the point of view of syntax. In the first part of the course, which covers what has been during the last few years the field of the most active research, the student will be introduced to the latest theories and discoveries in Aryan phonetics, and will be expected to read and criticise the articles appearing from time to time in the philological journals, and to prepare reports on these articles. The same method will be pursued during the investigation of the history of forms; and in the third part of the course the student will begin the study of comparative syntax by a close comparison of the use of cases and verbal forms in Sanskrit, Greek, and Latin.

Beginners' Sanskrit, Dr. Hopkins. *Once weekly throughout the year.*

This course is open also to undergraduate students in their fourth year. It will consist mainly of Sanskrit grammar, with selections from Lanman's Reader.

Course in the Rig Veda, Dr. Hopkins.

This course is intended for advanced students of Sanskrit.

Introduction to Zend and the Zend-Avesta, Dr. Hopkins.
The number of hours will be determined later.

The first and third courses will be given in alternate years, the course given in 1891–92 being determined by the wishes of the students. The fourth and fifth courses also will alternate.

Greek.

The instruction in Greek is under the charge of Dr. Edward W. Hopkins, Professor of Greek, Sanskrit and Comparative Philology; Dr. Paul Shorey, Professor of Greek and Latin; and Dr. Herbert Weir Smyth, Associate in Greek. The instruction offered in Greek covers twenty-four hours of lectures and recitations weekly, and includes five hours a week of elementary work, ten hours a week of undergraduate major and minor work, four hours weekly of post major work, open only to graduates and to undergraduates that have completed the major course in Greek; and five hours weekly of graduate work.

The courses are as follows:

Beginners' Course.

A course of five hours weekly throughout the year, under the direction of Dr. Smyth, is provided for those students who may wish to study Greek, but whose examination for matriculation did not include it. Students that desire to continue the study of Greek are expected to read more Greek than is required of the other students, in order that in the ensuing year they may pass the entrance examination and enter upon the first year of the major course. Students that wish may substitute for this course the minor, or first year's course, in Latin. Either the Beginners' Course in Greek or the Minor Course in Latin is required of candidates for the degree of Bachelor of Arts that have not passed the matriculation examination in Greek.

Major Course.

FIRST YEAR.

(*Minor Course.*)

1*st Semester.*

Lysias, *Selections*, Dr. Hopkins.	*Twice weekly.*
Odyssey, *Selections*, Dr. Smyth.	*Twice weekly.*
(May be taken as a Free Elective.)	
Greek Prose Composition, Dr. Hopkins.	*Once weekly.*
Private Reading, Andocides, *Mysteries.*	

2*nd Semester.*

Euripides, *Medea*, Dr. Hopkins.	*Twice weekly.*
Homer (continued), Herodotus, *Selections*, Dr. Smyth.	*Twice weekly.*
Greek Prose Composition, Dr. Hopkins.	*Once weekly.*
Private Reading, Plato, *Apology.*	

SECOND YEAR.

1*st Semester.*

Lectures on the History of Greek Poetry, Dr. Shorey.	*Twice weekly.*
Thucydides, *Selections*, Dr. Hopkins.	*Thrice weekly.*
Private Reading, Euripides, *Hippolytus.*	

2*nd Semester.*

Lectures on the History of Greek Prose, Dr. Shorey.	*Twice weekly.*
Æschylus, *Prometheus*, and *Selections from the Lyric Poets*, Dr. Hopkins.	*Thrice weekly.*
Private reading, Isocrates, *Panegyricus.*	

The usual second year's work of the Major Course may be divided so as to cover a period of two years; but the lectures on literature must be taken, and the reading course of two hours must, if elected, be taken for both semesters.

In 1892-93, in the Major Course, Dr. Hopkins will read in the first semester, Sophocles, *Antigone*, and in the second semester, Thucydides, *Selections.*

The private reading for the Major Course will be Sophocles, *Ajax*, and Isocrates, *Panegyricus.*

In 1892-93, Dr. Shorey will meet the Minor Class for Homer four times weekly during the first semester; and Dr. Hopkins will read Plato's *Apology* and *Crito*, and Euripides'

Medea four times weekly during the second semester. The Homer may be taken as a Free Elective.

Examinations on the courses of private reading will be held at the end of each semester.

Group: Greek with any language, or with Mathematics.

Post Major Courses. Post Major courses are offered to those that have completed the Major Course; they may also be taken by graduate students.

1*st Semester.*

Rapid reading of Plato, *Republic*, Dr. Shorey.	*Twice weekly.*
Pindar, *Selections*, Dr. Shorey.	*Once weekly.*
(These courses may not be given in 1892–93.)	
Theocritus, *Selections*, Dr. Hopkins.	*Once weekly.*
Aristophanes, *Clouds*, Dr. Hopkins.	*Once weekly.*
Attic Orators, Dr. Smyth.	*Twice weekly.*
Greek Composition, Dr. Smyth.	*Once fortnightly.*
Aristotle, *Poetics*, Dr. Smyth.	*Once weekly.*
New Testament Greek, Dr. Barton.	*Twice weekly.*

2*nd Semester.*

Rapid reading of Plato, *Republic*, Dr. Shorey.	*Twice weekly.*
Pindar, *Selections*, Dr. Shorey.	*Once weekly.*
(These courses may not be given in 1892–93.)	
Lucian and Pausanias, *Selections*, Dr. Hopkins.	*Once weekly.*
Æschylus, *Oresteia*, Dr. Hopkins.	*Once weekly.*
Attic Orators, Dr. Smyth.	*Twice weekly.*
Greek Composition, Dr. Smyth.	*Once fortnightly.*
Aristotle, *Poetics*, Dr. Smyth.	*Once weekly.*
New Testament Greek, Dr. Barton.	*Twice weekly.*

In 1892–93 Dr. Hopkins will read during the first semester *Selections* from the Lyric Poets and Theocritus two hours weekly, and Sophocles' plays two hours weekly.

Graduate Courses. The graduate courses in Greek are varied from year to year, so that they may be pursued by the student for several consecutive years. Certain of these courses are required of students taking Greek as a minor subject in the examination for the degree of Doctor of Philosophy, and certain others of students taking it as a major subject. The Post Major courses are open to graduate students. A large part of the work expected of graduate students will be in pursuing certain courses of reading under the direction of the department, and reports of works thus read will from time to time be required of the students.

History of Greek Lyric Poetry, from the earliest times to the fifth century B. C., Dr. Smyth. *Twice weekly throughout the year.*

This course will consist of critical study of some portion of the text and the reading of most of the contents of Bergk's "Poetæ Lyrici Græci." Special attention will be given to the history of the development, and to the diction, of each branch of lyric poetry.

Homer, Dr. Smyth. *Twice weekly throughout the year.*

The entire Iliad is read, and a critical study is made of some portion of one book. The following topics will be treated:—Study of the Scholia Venetus A; history of Homeric criticism in antiquity and in modern times, so far as it relates to the language of the epic; study of selected portions of Homeric grammar.

The course on Homer presupposes a thorough acquaintance with Greek, and is devoted to the study of the dialectic and syntactic peculiarities of Homer, with a comparison of inscriptional forms. Like course 1, it will consist chiefly of lectures and seminary work.

Greek Drama, *Selections*, Dr. Hopkins. *Once weekly throughout the year.*

The reading in the Drama will be grouped about a single play or series of plays. In 1891-92 the plays of Sophocles will be selected for the first semester, and the Eumenides of Æschylus for the second semester. Rapid but careful reading will be expected. The class work will consist of a running commentary on the interpretation of the text, and a comparison of variæ lectiones. The student is expected to read much more than can be treated in class.

Latin.

The department in Latin is under the charge of Dr. Paul Shorey, Professor of Greek and Latin, and Dr. Gonzalez Lodge, Associate in Latin. The instruction offered covers eighteen hours of lectures and recitations weekly, and includes ten hours a week of undergraduate (major and minor) lectures, five hours weekly of post major work, open only to graduates and to undergraduates that have completed the major course in Latin; and three hours weekly of graduate work.

First Year.

(*Minor Course.*)

Major Course.

1*st Semester.*

Horace, *Selections*, Dr. Shorey. *Twice weekly.*

(May be taken as a Free Elective.)

Cicero, *pro Murena*, Livy, *book I.*, Dr. Lodge. *Twice weekly.*

Latin Prose Composition, Dr. Lodge. *Once weekly.*

Private Reading, Virgil, *Æneid VII., VIII.*

2*nd Semester.*

Horace (continued), Virgil, *Selections*, with lectures on the poetry of the Augustan age, Dr. Shorey. *Twice weekly.*

(May be taken as a Free Elective.)

Livy, *book I.* (continued), Dr. Lodge. *Twice weekly.*

(In 1892-3, Livy *book I*, and Cicero, *Second Philippic*, will be read.)

Latin Prose Composition, Dr. Lodge. *Once weekly.*

Private Reading, Virgil, *Æneid IX., X.*

Second Year.

1*st Semester.*

Lectures on Latin Literature, Dr. Shorey. *Once weekly.*

Roman Satire: Horace, Persius, Dr. Lodge. *Once weekly.*

Suetonius, *Life of Augustus*, Tacitus, *Annals*, Dr. Lodge. *Twice weekly.*
Latin Prose Composition, Dr. Lodge. *Once weekly.*

Private Reading, Pliny, *Selected Letters.*

2nd Semester.

Lectures on Latin Literature, Dr. Shorey. *Once weekly.*
Roman Satire: Persius (continued), Juvenal, Dr. Lodge. *Once weekly.*
Tacitus, *Annals* (continued), Dr. Lodge. *Twice weekly.*
Latin Prose Composition, Dr. Lodge. *Once weekly.*

Private Reading, Cicero, *Selected Letters.*

In 1892–93 Dr. Lodge will read during the first semester of the Minor Course, Cicero and Livy four hours weekly; and Dr. Shorey will read Horace four hours weekly during the second semester. The course in Horace may be taken as a Free Elective.

Group: Latin with any language, or with Mathematics.

Post Major Courses. Five hours weekly of *Post-Major* Latin is offered students that may have completed the Major Course in Latin.

1st Semester.

Lucretius, Dr. Shorey. *Once weekly.*
Terence, *Four Plays*, Dr. Lodge. *Twice weekly.*
Latin Prose Composition, Dr. Lodge. *Once weekly.*

2nd Semester.

Lucretius (continued), Dr. Shorey. *Once weekly.*
Plautus, *Three Plays*, Dr. Lodge. *Twice weekly.*
Lectures on Latin Syntax, *The Subordinate Sentence*, Dr. Lodge. *Once weekly.*

Opportunity will be given, in connection with this course, for weekly practice in Latin prose composition, and, if desired, it can be elected as one hour in Latin prose composition only.

Graduate Course.

Graduate Courses. Graduate work in Latin is conducted according to the Seminary method. One department of Latin Literature, or one Latin author, is selected as a centre of study. A course of historical and critical lectures is given by the instructor, and selected passages are made the subject of critical interpretation by the students. An effort is also made to guide the students in the direction of special or original work. Graduate students from other institutions will also find it to their advantage to pursue the advanced courses offered as Post-Major.

Roman Satire (Seminary), Dr. Lodge. *Three hours weekly.*

(The course on Roman Satire will be followed by courses on Roman Comedy and Roman Historiography; these courses will be so arranged as to offer three consecutive years of graduate work in the Latin Seminary.)

Modern Languages.

Professors and instructors: Dr. M. Carey Thomas, Dr. Mary M. Gwinn, Mr. James Douglas Bruce, Dr. Hermann Collitz, Miss Rose Chamberlin, Dr. Joseph A. Fontaine, Mr. Frederic M. Page.

English.

The instruction in English is under the direction of Dr. M. Carey Thomas, Professor of English, Dr. Mary M. Gwinn, Associate in English, Mr. James Douglas Bruce, A.M., Associate in Anglo-Saxon, and Miss Mabel Parker Clark, A.M., Reader in English. It includes two years of lectures on literature and language required of every candidate for a degree; two years of advanced English, which presupposes as much information as is contained in the required course, and may be elected in combination with the major course in any other language; and graduate courses in English literature, Essay-work, Anglo-Saxon, and Early English.

Required Course.

The required course consists of lectures on literature and language, in which the history of English literature will be regarded as far as possible from the point of view of European literature generally, essay work, and courses of private reading, which are meant to familiarise the student with English authors.

Six essays on subjects connected with the history of English literature are required of every student.

First Year.

1*st Semester.*

Lectures on the English language, Dr. Thomas. *Four times weekly till Xmas.*

Lectures on the history of Anglo-Saxon literature, with an introduction into the study of early Teutonic literature and mythology, Dr. Thomas. *Four times weekly after Xmas.*

Essay-work, Dr. Gwinn. *Once weekly.*

2*nd Semester.*

Lectures on the history of English literature to the time of Spenser, inclusive, with an introduction into the study of French mediæval literature, Dr. Thomas. *Four times weekly.*

Essay-work, Dr. Gwinn. *Once weekly.*

Second Year.

1*st Semester.*

Lectures on the history of English literature from Spenser to the Restoration, inclusive, with a short account of Italian literature, Dr. Thomas. *Four times weekly.*

Essay-work, Dr. Gwinn. *Once weekly.*

2*nd Semester.*

Lectures on the history of English literature from the Restoration to the

present time: with a short account of the literature of France in the 17th and 18th centuries, Dr. Thomas. *Four times weekly.*

Essay work, Dr. Gwinn. *Once weekly.*

Parallel courses of private reading, on which weekly examinations are held, are arranged in connection with the lectures, and the writing of essays will form part of each year's work.

The courses of the first and second year will be given alternately, the first in 1891–92, and the second in 1892–93, and may be attended in reverse order.

Major Course. The Major Course in English differs slightly from the other major courses of the college, in that it must always have been preceded by two years' undergraduate study of English in the required course, and is intended for graduate students or for those undergraduate students who are exceptionally anxious to specialise in English. Either year may be taken separately as a Free Elective by students that have completed the required course.

FIRST YEAR.

Language—Minor Course.

1*st Semester.*

Anglo-Saxon Grammar and reading of Anglo-Saxon texts, Mr. Bruce. *Five times weekly.*

The course in Anglo-Saxon begins with Sievers' Anglo-Saxon Grammar and the prose contained in Sweet's Anglo-Saxon Reader. The poem of Beowulf is read with the class, and portions of Beowulf literature (episodes, armor, customs, etc.) are assigned for special study. The course closes with Zupitza's Reader, which forms the transition to the Early English of the next semester.

2*nd Semester.*

Early English Grammar and the reading of Early English Texts, and Chaucer, Mr. Bruce. *Five times weekly.*

The course in Early English will include the reading of Morris and Skeat, *Specimens of Early English, Parts 1st and 2nd*, and selections from Piers Plowman and Wyclif.

SECOND YEAR.

Literature—Minor Course.

English Poets, and English Essayists and Critics of the Nineteenth Century, Dr. Thomas and Dr. Gwinn. *Five times weekly.*

The year is essentially a year of seminary work and essay-writing.

The authors studied may be varied from year to year. In 1892–93 the poets chosen will be the poets of the early part of the nineteenth century, Shelley, Byron, Keats, Wordsworth, Coleridge, and Southey; the essayists and critics, those of the early part of the nineteenth century, and Matthew Arnold, Mr. Swinburne, and Mr. Pater.

Group: English with any language.

GRADUATE COURSE.

Graduate Courses. There will be offered each year two distinct graduate courses in English, one in literature and one in language, and these courses will be so varied that they may be followed by the graduate student throughout three years. The graduate courses in literature presuppose at least as much knowledge as is obtained in the two years' course of undergraduate lectures on English Litera-

ture; and the graduate courses in Anglo-Saxon presuppose as much knowledge of Anglo-Saxon as is obtained in the language year in the English Major.

Students that choose English as their chief subject in their examination for the degree of Doctor of Philosophy must have, if they specialise in literature, at least as much knowledge of Anglo-Saxon and Early English, and if they specialise in language, at least as much knowledge of literature, as is obtained in the courses required of those students who make English one of the chief subjects of undergraduate study, and must have taken at least one course in essay-work.

Literature.

The graduate instruction in English literature will include the direction of private reading and the assignment of topics for investigation.

The Elizabethan and Jacobean Drama, Dr. Thomas.

Twice weekly throughout the year.

The time required for reading in connection with the lectures makes this course the equivalent of four hours weekly. During the first semester the Mystery and Miracle. Plays and the chief works of the pre-Shakespearean Drama are read privately by the class and discussed in detail in the lectures and conferences, different plays being as signed to different members of the class for report and discussion. In the second semester Shakespeare's histories, and seven or eight of his other plays are read critically and the remaining plays are studied privately by the members of the class. The chief plays of the other Elizabethan and Jacobean dramatists are read in connection with the different periods of Shakespeare.

Essay work in connection with the study of the Elizabethan and Jacobean Drama, Dr. Gwinn. *Three times weekly throughout the year.*

This course is meant to be taken in connection with the Course on the Drama. The essay work will deal for the most part with dramatists not made a subject of special study in that course.

Essay work in connection with the study of the prose works of Carlyle, Matthew Arnold, and Mr. Ruskin, Dr. Gwinn. *Once weekly throughout the year.*

Essay work in connection with the study of Eighteenth Century Authors, Dr. Gwinn. *Once weekly throughout the year.*

Dr. Gwinn will meet the students in these courses from time to time in order to direct their reading and to discuss the subject-matter of their essays. The last two courses are open also to undergraduate students that have completed the essay work of the required English.

Language.

Beowulf, Mr. Bruce. *Twice weekly.*

The reading of Beowulf is supplemented by lectures upon its geography, mythology and ethnography. Parallelisms between Beowulf and the Cædmonian and Cynewulfian poems are investigated by the students.

Old English Phonology and Inflection, Mr. Bruce.

Twice weekly throughout the year.

Chaucer, Mr. Bruce. *Twice weekly throughout the year.*

Reading of Chaucer and lectures on Early English Dialects, illustrated by selections from authors of Chaucer's time.

German.

The instruction in German is under the direction of Dr. Hermann Collitz, Associate Professor of German and Teutonic Philology, and Miss Rose Chamberlin, Reader in German.

Beginners' Class. A class for beginners in German, under the direction of Miss Rose Chamberlin, five hours weekly throughout the year, is provided, in order that those students whose matriculation examination did not include German may with less difficulty obtain the reading knowledge of it that they must possess before receiving a degree. By great diligence such students may, it is hoped, acquire sufficient knowledge to be admitted, should they desire it, into the Major Course in German.

Conversation Class. A class for German conversation will meet, in the afternoon or evening, once weekly throughout the year. It may be attended by any student that has passed the matriculation examination in German.

Major Course. The Major Course presupposes as much knowledge as is implied by the matriculation examination in this subject. Either the first or second year of the Major Course may be taken as a Minor Course.

FIRST YEAR.

(*Minor Course.*)

1*st Semester.*

Lectures on the History of German Literature from Klopstock to the present time, Dr. Collitz. *Twice weekly.*

These lectures will be delivered in German and will treat the great classical authors, as well as the most modern poets and novelists; they are open as a Free Elective to all students that have passed the matriculation examination in German.

Schiller, *Wallenstein*, Miss Chamberlin. *Twice weekly.*

German Prose Composition and Reading, Miss Chamberlin. *Once weekly.*

German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which examinations will be held during the semester, is as follows: Lessing, *Emilia Galotti;* Goethe, *Iphigenie;* Schiller, *Selections from the Thirty Years' War. Selections from the Thirty Years' War* is the private reading for those that elect the course in *Wallenstein* only. The remaining works are to be read in connection with the lectures on literature.

2*nd Semester.*

Lectures on the History of German Literature from Klopstock to the present time, Dr. Collitz. *Twice weekly.*

Goethe, *Faust* (1*st Part*), Miss Chamberlin. *Twice weekly.*

German Prose Composition and Reading, Miss Chamberlin. *Once weekly.*

German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which examinations will be held during the semester, is as follows: *Selections from Volksbücher, Commentators, etc.;* Schiller, *Don Carlos, Braut v. Messina. Selections from Volksbücher, Commentators, etc.* is the private reading for those that elect the course in *Faust* only. The remaining works are to be read in connection with the lectures on literature.

SECOND YEAR.

1*st Semester.*

The History of German Literature from the earliest times to the time of Klopstock, exclusive, Dr. Collitz. *Twice weekly.*

These lectures, which are delivered in German, begin with the account of German civilisation found in classical authors, and include Ulfilas, the time of Charlemagne, the fragments of heathen poetry, the Hêliand, Otfried, the Nibelungenlied, and the Heldenbuch, the time of Wolfram, Gottfried, Hartmann, the Minnesingers and Meistersingers, Sebastian Brandt, Hans Sachs, etc.

Max Müller, *The German Classics* (1*st Part*), Dr. Collitz. *Once weekly.*
Goethe, *Faust* (2*nd Part*), Miss Chamberlin. *Once weekly.*
German Prose Composition and Reading, Miss Chamberlin. *Once weekly.*
German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which examinations will be held during the semester, is as follows: Lessing, *Minna v. Barnhelm*, *Nathan der Weise;* Goethe, *Clavigo*, in connection with the lectures on literature; *Selections from Commentators*, etc. for those that elect the course in *Faust* only.

2*nd Semester.*

The History of German Literature from the earliest times to the time of Klopstock, exclusive, Dr. Collitz. *Twice weekly.*

Max Müller, *The German Classics* (1*st Part*), Dr. Collitz. *Once weekly.*

Goethe, *Faust* (2*nd Part*), Miss Chamberlin. *Once weekly.*

German Prose Composition and Reading, Miss Chamberlin. *Once weekly.*

German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which examinations will be held during the semester, is as follows: Goethe, *Tasso;* Scheffel, *Ekkehard;* Chamisso, *Peter Schlemihl*, in connection with the lectures on literature; *Selections from Commentators* for those that elect the course in *Faust* only.

Group: German with any language.

POST-MAJOR.

Post Major Courses.

Post-Major courses are offered to those who have completed the Major Course; they may also be taken by graduate students.

Critical Study of the Goethe-Schiller correspondence, with reference to the principal works of Goethe and Schiller, and to their other important letters, Miss Chamberlin. *Twice weekly.*

Themes and Essays in German in connection with above course, Miss Chamberlin. *Once weekly.*

[Private reading will be assigned in connection with the above courses, and the essay work cannot be taken without the course in the Goethe-Schiller correspondence.

GRADUATE COURSE.

Graduate Courses.

The following graduate courses are offered:

1*st Semester.*

Middle High German Grammar and reading of Middle High German Texts, Dr. Collitz. *Twice weekly throughout the year.*

This course includes a brief abstract of Middle High German grammar, with especial reference to the difference between Middle High German and Modern German, and a study of the most prominent authors in Middle High German. Part of Hartmann's *Armer Heinrich* is read, and is followed by selections from the *Nibelungenlied*, a brief account being given of the "Nibelungenfrage" and of the manuscripts of the *Nibelungenlied*. In the second semester Middle High German lyric poetry will be studied in selections from Walther von der Vogelweide and other Minnesingers, and the Middle High German knightly epic poetry in the poetry of its three main representatives: Hartmann (*Iwein*), Wolfram von Eschenbach (*Parzival*), and Gottfried von Strassburg (*Tristan*).

This course is required of all students that make German the major subject in their examination for the degree of Doctor of Philosophy. The private reading will include the entire works of the authors treated in the course.

Old High German, Dr. Collitz. *Once weekly throughout the year.*

This course presupposes an accurate knowledge of Gothic and some acquaintance with Middle High German grammar, Old High German being studied in its relation to Early Teutonic and to the later periods of High German. Special attention is given to the differences between the Old High German dialects, and to the study of some especially interesting or difficult texts, such as the *Hildebrandslied* and *Otfried*.

General Teutonic Philology.

The instruction in this department is under the direction of Dr. Hermann Collitz, Associate Professor of German and Teutonic Philology. Special attention is called to the facilities for the study of Comparative Teutonic Philology offered in Bryn Mawr College. The English and the German departments together have provided for a complete course in Teutonic Philology, comprising both the study of the individual languages (Gothic, Norse, Anglo-Saxon, Old Saxon, Old High German, Middle High German, Platt-Deutsch, etc.) and that of general comparative philology.

There is still much opportunity for original work in Teutonic philology; and it is hoped that students who have completed the full course will be able to take an active part in it. It should be remembered that original work does not require any unusual faculties, and presupposes only a more widely extended and more accurate knowledge than former investigators possessed, and training under an experienced teacher from whom the student may learn where to start and how to proceed.

Gothic, Dr. Collitz. *Twice weekly.*

Gothic phonetics and inflection are studied in connection with the elements of comparative Aryan grammar. The Gothic texts to be read are those given in Braune's Grammar.

As a thorough knowledge of Gothic is the foundation of the study of historical and comparative Teutonic grammar, every graduate student in Teutonic grammar is advised to take this course as early as possible.

Old Norse, Dr. Collitz. *Once weekly.*

This course is intended as an introduction to the study of Old Norse language and literature. As students entering this course are supposed to be acquainted with Gothic and with Anglo-Saxon or Old High German grammar, their attention will be called in the grammatical part of the course to the relation between Gothic and Norse, and to the differences between the East Teutonic and West Teutonic branches. Among the texts to be read, selections from the younger and the older Eddas will take a prominent place. In connection with the latter, the old Teutonic heroic verse and Prof. Sievers' system of metrics will be explained.

Outlines of Teutonic Philology, Dr. Collitz. *Once weekly.*

The study of Comparative Teutonic Philology is recommended to those students only who are acquainted with the single old Teutonic languages, and have studied Gothic, Old High German, Old Saxon, Anglo-Saxon, and Norse. The object of the course is to compare the single old Teutonic languages with each other and with the related Aryan languages,—or in other words (1) to reconstruct the primitive Teutonic languages ; (2) to point out the characteristic features of primitive Teutonic in distinction from primitive Aryan; (3) to carry down the history of early Teutonic from the period of unity into the early stages of the individual Teutonic languages. Together with Teutonic phonetics and inflection some problems of a more general character will be discussed, such as the question of relationship of dialects, of consistency of phonetic laws, etc.

Romance Languages.

French.

The instruction in Romance Languages is under the direction of Dr. Joseph A. Fontaine, Associate Professor of Romance Languages, and Mr. Frederic M. Page, Reader in Romance Languages.

Beginners' Class.

A class for beginners in French, under the direction of Mr. Frederic M. Page, five hours weekly throughout the year, is provided, in order that those students whose matriculation examination did not include French may with less difficulty obtain the reading knowledge of it that they must possess before receiving a degree. By great diligence such students may, it is hoped, acquire sufficient knowledge to be admitted, should they desire it, into the Major course in French.

Conversation Class.

Opportunities for oral practice in French will be extended during the year in both minor and major courses. An extra hour in French conversation is offered to general students and is given whenever a sufficient number of students apply for it.

Major Course.

Entrance to the Minor Course in French presupposes as much knowledge as is required to pass the matriculation examination in that subject. A very considerable portion of the work in French, as much, indeed, as the knowledge of the students justifies, will be conducted in the French language.

First Year.

(*Minor Course.*)

Lectures on the History of French Literature of the 18th and 19th Centuries, accompanied by collateral readings of representative French authors, under direction of the professor in charge, Dr. Fontaine. *Twice weekly.*

These lectures are delivered in English during the first six weeks of the course, after which time French is used exclusively, and students are then expected to take notes and make answers in French. The aim of these lectures is to familiarise the students with the spoken language of France, and to form, cultivate, and direct their literary taste. An attempt is made also to compare the periods of French literature under consideration with the corresponding periods in English, Italian and Spanish literature.

Critical Readings in French Prose and Poetry, Mr. Page. *Once weekly.*

Practical Exercises in French Syntax, Composition, etc., Mr. Page. *Once weekly.*

Oral Practice in French; Talks on French Literature, Language, etc., conducted exclusively in French, Dr. Fontaine or Mr. Page. *Once weekly.*

The collateral private reading on which examinations, at stated intervals, are held is as follows: Some of the dramas and historical prose of Voltaire, some of the philosophic prose of Rousseau, selections from the prose of Diderot, the comedies of Beaumarchais, the poems of André Chenier, portions of the *Génie du Christianisme* and other works of Chateaubriand, works of Mme. de Staël in part; representative works and selections from works of the great Romanticists and other nineteenth century authors, Lamartine, Victor Hugo, Béranger, Alfred de Musset, Alfred de Vigny, George Sand, Balzac; also contemporary prose and dramas. This reading matter is specially selected with a view to representing the literature of the period and to illustrating the subject-matter of the lectures.

Second Year.

(*Major Course.*)

The French Language will be used altogether in conducting the Major Course.

Lectures on French Literature, from its origin to the 17th century inclusive, accompanied by collateral reading of representative French authors, under the direction of the professor in charge, Dr. Fontaine. *Twice weekly.*

Critical Readings and Studies in the Great Masterpieces of 15th, 16th, 17th Centuries, Dr. Fontaine or Mr. Page. *Once weekly.*

Studies in French Style, Composition, etc., Dr. Fontaine. *Once weekly.*

Advanced Oral Practice, Writing of French Essays, and Talks on various subjects of interest to students of French, conducted exclusively in French, Dr. Fontaine. *Once weekly.*

The collateral private reading, on which examinations, at stated intervals, will be held, consists of selections from the leading authors of the sixteenth century, Montaigne, Rabelais, from the *Satire Ménippée*, from *Ronsard and the Pléiade*, *Robert Garnier*, and others. An extensive course is marked out in the classics of the seventeenth century, which will be made as far as possible representative, and will accompany and illustrate the lectures. In connection with the lectures on Corneille and Racine, for example, *Le Cid*, *Horace*, *Cinna*, *Polynecte*, *Le Menteur*, *Andromaque*, *Phèdre*, *Athalie*, *Les Plaideurs*, and selections from *Britannicus*, *Mithridate*, and *Esther* are read. The amount of private reading assigned to students is so great that a critical interpretation is not required, the main point being that they should be thoroughly acquainted with the contents. It is expected that idiomatic phrases or syntactic complications will offer no serious difficulties to students in the French major course. Molière, Malherbe, Boileau, La Fontaine, Regnier, Pascal, La Rochefoucauld, Mme. de Sévigné, the great pulpit orators, and others, find a place in the course.

Group: French with any language; *or* French with Italian and Spanish.

GRADUATE COURSE.

Graduate Courses.

Post-major and graduate courses in Old French, Romance Literature, and Philology will be offered. They will be varied from year to year, and the number of courses and the hours given to each course weekly will be determined by the needs of the students.

Critical reading of Old French Texts, Dr. Fontaine.

French Philology (Morphology and Phonetics), Dr. Fontaine.

Comparative study of Old and Modern French Syntax, Dr. Fontaine.

Comparative Romance Philology (Morphology and Phonetics), Dr. Fontaine.

Comparative survey of French, Italian, and Spanish Literature, Dr. Fontaine.

Graduate students interested in the study of literature will find it to their advantage to attend Dr. Fontaine's lectures on French Literature twice weekly throughout the two years of the major course in French.

Italian and Spanish.

The instruction in Italian and Spanish is under the direction of Dr. Joseph A. Fontaine, Associate Professor of Romance Languages, and Mr. Frederic M. Page, Reader in Romance Languages.

FIRST YEAR.

(*Minor Course.*)

Major Course.

Italian, Mr. Page. *Three hours weekly.*

This course consists of a systematic study of the grammar, pronunciation, reading and translation, in order to give the student a practical knowledge of the language.

Spanish, Mr. Page. *Twice weekly.*

This course is similar to the course in Italian.

SECOND YEAR.

(*Major Course.*)

Italian, Dr. Fontaine and Mr. Page. *Three hours weekly.*

In Italian the course will be mainly occupied with the study of the *Divina Commedia* and the *Vita Nuova* of Dante, which will be preceded by readings in the *Sonetti* and the *Canzoni* of Petrarch, and the *Orlando* of Ariosto.

Private readings in more modern authors, as Goldoni, Manzoni, Leopardi, will be carried on under the direction of Dr. Fontaine.

Spanish, Dr. Fontaine and Mr. Page. *Twice weekly.*

In Spanish the plan pursued will be similar to that in Italian. The *Don Quixote* of Cervantes will form the principal subject of study, and, in addition, the principal masterpieces of Lope de Vega and of Calderon.

The private reading will be in modern authors, as Fernan Caballero and Castelar, under same conditions as above.

Group: Italian and Spanish with any language.

Celtic and Slavonic Languages.

Dr. Hermann Collitz, Associate Professor of German and Teutonic Philology, will offer courses in these languages to students of comparative Aryan or of comparative Teutonic philology. Such students will find it of great advantage to gain at least some knowledge of Old Irish and Old Slavonic. Courses will also be arranged for students that prefer to study Lithuanian or any of the more important living Slavonic languages (Russian, Polish, or Servian).

Semitic Languages and Biblical Literature.

The instruction in Semitic Languages is under the direction of Dr. George A. Barton, Associate in Biblical Literature and Semitic Languages.

The courses in Semitic languages and Biblical studies will be varied from year to year, so as to form a three years' course for those students who wish to make them the chief subject in the examination for the degree of Doctor of Philosophy; and not more than ten hours of lectures will be given in any one year, the courses selected being decided by the needs of the students.

The college has been particularly fortunate during the past year in securing the library of the late M. Arthur Amiaud, of Paris. While M. Amiaud was especially eminent as an Assyriologist, he was also prominent as a general Semitic student. His library was the collection of an active scholar, and forms a working library for the student in every department of Semitic study. It is particularly rich in the Hebrew, Syriac, and Assyrian languages, containing several works, indispensable to the student, which are now out of print. These books, together with those already owned by the college and easily accessible in neighboring libraries, form a good equipment for the specialist in Biblical or Semitic study.

Semitic Languages. Hebrew, Dr. Barton. *Two hours weekly throughout the year.*

It is the aim of this course to give the student a working knowledge of the Hebrew language. As soon as the grammatical principles are sufficiently mastered, portions of the Hebrew Bible will be read, including passages from Genesis, Exodus, Deuteronomy, and Samuel.

A knowledge of Hebrew is important not only to the student of the Old Testament, but also to all students of Semitic literature and of the history of religion. It is the most

natural, and in some respects the easiest, introduction to the study of the Semitic languages.

Aramaic, including Syriac and Biblical Aramaic, Dr. Barton.

Two hours weekly throughout the year.

In this course the first semester is devoted to Syriac. After the forms are learned, which is an easy matter for students acquainted with Hebrew, selections are read from the Syriac versions of the New Testament, from the chronicles of Barhebräus, and from the hymns of Efrem. The second semester is devoted to Jewish Aramaic, which is the dialect of large parts of the books of Daniel and Ezra, as well as of the Targums.

A knowledge of Syriac is of especial value for the textual criticism of the Bible, since the Syriac versions of the Bible are among the earliest. It is important also to students of general Semitics, particularly to those who pursue Assyrian, and to the students of ecclesiastical history and of general mediæval history. The work of the second semester enables the student already acquainted with Hebrew to study the Aramaic portions of the Hebrew Bible, and furnishes an introduction to the study of the Talmud.

Assyrian, Dr. Barton. *Two hours weekly throughout the year.*

For students of ancient oriental history and of Semitic religion Assyrian is of especial importance. It is generally recognised as almost indispensable to those who purpose to teach Semitic languages, or to become students of Hebrew history and prophecy. The complicated nature of the written character and the absence of adequate dictionaries make a knowledge of some other Semitic tongue important for the study of Assyrian.

The reading of transliterated texts will begin with the first lesson, the texts being taken mainly from the classical Assyrian period (1100–650 B.C.), and especially from that of the dynasty of Sargon.

A few of the written characters will be learned daily, and as soon as learned will be used in writing exercises and reading texts in the original. The Assyrian account of the deluge and some of the creation tablets will be read in class.

Courses in more advanced Hebrew and Assyrian, and in the Phœnician, Arabic, and Ethiopic languages, will be given from time to time, according to the demands of the students.

Biblical Literature.

History of Israel from the Judges to the Fall of Jerusalem, with a sketch of the Life of Christ and of the Apostolic Age, Dr. Barton.

Two hours weekly throughout the year.

The purpose of this course is to give as clear an account as possible of the political and social history of the period mentioned, and to gain a view of the historical setting of primitive Christianity. The time covered by the course includes the really interesting portion of Israel's life, the formative period of the Judges, the rise of the monarchy, the disruption of the state, the internal feuds and the relations to foreign powers, the political activity of the prophets, the Assyrian and the Babylonian captivities, the return from Babylon, the formation under Ezra and Nehemiah of a theocratic state, the Maccabæan and Herodian periods, the beginnings of Christianity, and the taking of Jerusalem by the Romans. The revised version of the Bible will be used as a text-book. The instruction will be given by lectures, supplemented by parallel readings in Josephus and in modern works on Jewish history. The lectures will be illustrated by contemporaneous archæological remains.

History and progress of religious ideas in Israel, including a survey of the New Testament religious ideas, Dr. Barton. *Two hours weeekly throughout the year.*

In this course the history of the Hebrew religion is traced from the earliest known period down to the rise of Christianity; a study is made of the fundamental institutions of the Semitic religion, and of their relation to Christianity. The principal topics of the course are: the idea of God, including the development of monotheism; subordinate supernatural beings; the moral-religious constitution of man; ethical ideas and practices; the religious functions of priests and prophets; the passage of the nation into a church; the expectation of a national deliverer; the New Testament teaching as to the Trinity, the atonement, eschatology, and parousia. The instruction will be given by lectures, and topics will be assigned for special study.

Babylonian-Assyrian History from native sources with comparison of the Greek and Roman writers, Dr. Barton. *One hour weekly throughout the year.*

This course is given by lectures and is an attempt to restore the history of the Babylonian-Assyrian peoples from their own literary remains. The outline of the history as given in the inscriptions is presented, the every-day life of the people as revealed in the commercial documents studied, and the literature and art of the Babylonian-Assyrian peoples discussed.

History of the Spanish and Bagdad Califates, Dr. Barton. *One hour weekly throughout the year.*

This course is intended to give a general view of the Arabian-Moslem civilisation. There is a short preliminary sketch of the rise of Islam and the Califates of Medina and Damascus, then the Moslem rule in Spain and the fortunes of the Bagdad Califate are reviewed, and lastly the organisation of the government and courts of law, land tenure and taxes, religion, literature, art, the Moslem study of Greek philosophy and the introduction of Moslem philosophy through the Jews into Christian Europe. The attention of the student is directed to the relation between Moslem and Christian ideas, institutions and history.

Seminary.

Twice in every month a Seminary is held at which a paper on some topic in Biblical or Semitic study will be read by the instructor or by one of the students, and discussed by the members of the Seminary. A general topic is selected for each year. The topic for 1891-92 is "Pentateuchal Analysis."

NOTE.—For an introductory course on the origin and contents of the books of the Bible see page 66, and for study of the New Testament texts see page 46.

HISTORY AND POLITICAL SCIENCE.

Professors and instructors: Mr. Franklin H. Giddings, M.A., Dr. Charles McLean Andrews.

History.

The instruction in history is under the direction of Dr. Charles M. Andrews, Associate in History.

The object of the courses in history is three-fold. Primarily, history is taught for its own sake as a record of the development of humanity, secondarily as a necessary accompaniment of the study of political institutions, and finally as a framework for other forms of research, linguistic, religious, or archæological. The course is planned to develop in the students a readier

historical imagination, a critical sense and a consciousness of historical growth, rather than to give them a mere outline of general history. The instruction consists entirely of lectures; references are given for private reading; attention is paid to physical geography, and map-work is required; a part of every hour is devoted to questioning and discussion.

FIRST YEAR.

(*Minor Course.*)

Major Course.

1*st Semester.*

Ancient History to the Rise of Macedon, Dr. Andrews. *Five times weekly.*

The institutions and civilisation of Egypt, Chaldea, Palestine, Babylon, Assyria, Phœnicia and Persia, are briefly outlined, in order to make clear the relations of early Greece to the East, what she owed to Oriental influence, and the meaning and importance of Grecian politics, art, letters and philosophy, as contrasted with Oriental civilisation.

2*nd Semester.*

Ancient History from the beginning of Rome to the later days of the Empire, Dr. Andrews. *Five times weekly.*

This course is a continuation of the last. In general, the aim is to trace the expansion of the early Roman community, and in this connection, Livy's narrative is briefly examined; the growth of custom into law and its later modification; the equalisation of the Orders; the struggle with Carthage; the agrarian troubles; the overthrow of the Republic and the rise and decline of the Empire. In their proper place will be taken up the growth and extension of the Macedonian Empire, its relations with Rome, and the important character of the Achæan and Ætolian leagues in the final struggle of Greece with Rome.

SECOND YEAR.

(*Minor Course.*)

1*st Semester.*

The History of Mediæval Europe to the Period of the Renaissance, Dr. Andrews. *Five times weekly.*

This course may be taken independently as the required year in Modern History; it may also be regarded as a continuation of the work of the first year. The design is to trace the fall of Rome and the rise of new nationalities; the growth of Frankish power; the empire of Charles the Great; the gradual nationalisation of France and Germany; the growth and influence of the Church; the Feudal System, and the rise of French monarchy; the rapid extension of Mohammedanism and its points of contact with Europe; the struggle between the Papacy and the Holy Roman Empire; the scope and results of the crusading movement.

2*nd Semester.*

From the Period of the Renaissance to the Eighteenth Century, Dr. Andrews. *Five times weekly.*

The lectures trace the growth of the humanities and the phases of religious change; the broadening of knowledge in letters, geography and science; the extension of commerce and the struggle for privileges and constitutional liberty; the weakening of the Papacy and the failure of the Holy Roman Empire; the spirit of Reformation and the counter measures; the war in the Netherlands; the Thirty Years' War; the territorial

expansion of France and the rise of French absolutism. The course is planned as a preparation for the study of political, social and economic movements of the nineteenth century.

Group: History with Political Science.

POST-MAJOR COURSE.

Post-Major Course. English and American Constitutional History, Dr. Andrews. *Twice weekly.*

English constitutional history is examined as a necessary introduction to the study of American institutions.

(Not given in 1891-92, but given in 1892-93.)

GRADUATE COURSES.

Graduate Courses. Three courses are offered to graduate students in History in addition to direction in private reading and original research.

Historical Definition, Method and Criticism, Dr. Andrews. *One hour weekly.*

The character of this course is that of an informal lecture and discussion. The treatment is, therefore, rather suggestive than exhaustive. The topics discussed are the definitions, divisions and limits of History; the different classes of historical writing; the relation of History to other sciences; the sources of History, direct and indirect, and the methods employed in treating such sources; historical criticism, including the different kinds of evidence, and their treatment, argument, critical analysis, the inductive process, aids to evidence, geography, chronology, etc.

History of the Roman Law, Dr. Andrews. *One hour weekly.*

Law is studied from an historical rather than from a purely legal point of view. The object is rather to observe the steps by which custom and rules of conduct took on legal form; to examine the character of the early family law and its extension beyond the family; the nature of the early constitution of Rome; the Servian reforms; the Twelve Tables; the ancient forms of procedure; the struggle between the Patricians and Plebeians, and their gradual equalisation; the effects of the struggle upon the law; the Prætorian legislation, the Jus gentium, Jus naturale, the influence of the Stoic philosophy, and the Christian religion; the period of the great lawyers and the attempts at codification; final codification by Justinian and the later influence through the barbarian tribes, the Church and the universities. A knowledge of Latin is indispensable for this work.

History of the Nineteenth Century, Dr. Andrews. *Once fortnightly.*

These lectures are open also as a Free Elective to undergraduates that have completed the major course in history, of which this course is properly speaking the continuation. The work is confined to the political history of continental Europe; the lectures trace the political changes which have taken place in France, Italy, Germany, Russia and Turkey chiefly since 1815. Sufficient private reading is given to make this equivalent to a one hour course. Fortnightly examinations are held on the reading and the lectures.

(Not given in 1892-93.)

Political Science.

The instruction in Political Science is under the direction of Mr. Franklin H. Giddings, Associate Professor of Political Science.

The objects of the courses in political science are, first, to cultivate a scientific habit of thought in regard to all social

phenomena whatsoever; and secondly, to lay a basis of sound knowledge for an intelligent interest in public affairs, and for original work or professional studies in economics, law, administration or philosophical sociology. To this end instruction is offered in political economy, including economic history; in the evolution of political institutions, including public law and administration, and in modern theories of sociology. Minor, major and post-major, and graduate courses are given each year. The major and post-major courses are combined, the major lectures of any year being different in subject and treatment from those of the year before, so permitting students that desire it to take post-major work by following the major course for two successive years. The lectures are accompanied by constant class work, and by seminary exercises. Private reading is assigned, with the aim of developing independent thinking and research.

FIRST YEAR.

(*Minor Course.*)

Major Course.

1*st Semester.*

Political Economy, Mr. Giddings. *Five times weekly.*

This is a fundamental course, including a drill in the principles of the classical English Political Economy as the indispensable basis of further study. It is illustrated by the facts of economic history, including the manorial community of the Middle Ages, follows the growth of industry and commerce, analyses the industrial revolution, 1760–1846, and reviews the economic developments of recent times.

2*nd Semester.*

Political Institutions, Mr. Giddings. *Five times weekly.*

The aim of this course is to show how political institutions of every description, the world over, have been evolved from a few primary forms. Their development is traced from simple beginnings in tribal society through various transformations, monarchical, oligarchical and democratic, to their complicated forms in modern nations. The theory of legal rights and duties is presented, important definitions are given, and the fundamental principles of Continental, English, and American constitutional law are studied. The course concludes with lectures on methods of administration.

SECOND YEAR, 1891-92.

(*Major Course.*)

(*The lectures of this course are given in alternate years. The course, with some changes, will be given again in* 1893-94.)

1*st Semester.*

Advanced Political Economy, Mr. Giddings. *Five times weekly.*

The special subjects taken up in this course are, the Labor Question, the Land Question, Socialism, and the relations of the State to property, industry, and the poor.

2*nd Semester.*

Political Theories, Mr. Giddings. *Five times weekly.*

The leading political theories from Aristotle to Hegel, Mill and Spencer are critically reviewed.

Group: Political Science with History.

SECOND YEAR, 1892-93.

(*Major Course.*)

(*The lectures of this course are given in alternate years.*)

1*st Semester.*

Advanced Political Economy, Mr. Giddings. *Five times weekly.*

The special subjects are, Money, Bimetallism, and the Tariff History of the United States, Public Debts, Taxation, and Municipal Economy.

2*nd Semester.*

International Law, Mr. Giddings. *Five times weekly.*

Graduate Courses.

The advanced work in Political Science comprises three courses, namely, one in Political Economy, and two in Sociology.

GRADUATE COURSES.

Two Graduate Courses are given each year.

Political Economy, Mr. Giddings. *Once weekly throughout the year.*

This is a course of advanced theory and method, designed specially for Fellows and graduate students that look forward to original work or teaching. Particular attention is given to recent theoretical work. A reading knowledge of French and German is indispensable.

Modern Theories of Sociology, Mr. Giddings. *Once weekly throughout the year.*

The lectures on Sociology are intended to accomplish three things, namely; (1) to provoke thought on the question whether a philosophical science of society as an organic whole is possible; (2) to acquaint the student with what has been done already toward the construction of such a science; (3) to apply sociological conceptions and methods to a few chosen sociological problems. Fellows and graduate students expecting to do advanced work in this course must have, besides their equipment in history and political economy, at least a general knowledge of the history of philosophy and some acquaintance with modern biology and empirical psychology. The articles on biology, psychology, and ethnography in the Encyclopædia Britannica are suggested for preliminary reading. A reading knowledge of French and German is requisite.

Sociology, Mr. Giddings. *Once weekly throughout the year.*

A course of thirty lectures will be given on General Sociology. The various attempts that have been made to construct a philosophical science of society as an organic whole will be examined, and the field of sociology, as a study distinct from history, politics, and economics, will be defined. The causes and laws of social change will be sought, and the lectures will then lead up to the problem of progress, its conditions and limits. The different types of progressive and unprogressive societies will be studied comparatively. Statistical methods will be employed to show the reactions of civilisation that take such forms as insanity, suicide, crime, pauperism, and changes in birth-rates and death-rates. Fellows and graduate students expecting to do advanced work in this course must have, besides their equipment in history and political economy, a general knowledge of the history of philosophy, and some acquaintance with the literature of modern biology and empirical psychology. A reading knowledge of French and German is requisite.

Philosophy.

The course in Philosophy, five hours weekly throughout one year, is required of all candidates for a degree, and is educational rather than technical in its aims. An effort will be made to assist the student in co-ordinating the knowledge gained in other courses of study, and in acquiring a sufficient acquaintance with the method and vocabulary of speculative thought to read philosophic books intelligently.

The instruction in Logic, Psychology and in History of Philosophy is under the charge of Dr. Paul Shorey. It is a consecutive course of instruction, and extends over three hours a week through the year.

As yet only a minor undergraduate course in Philosophy has been organised, but Dr. Shorey will direct the philosophical reading of graduate students that intend to offer three subjects for the examination for the degree of Doctor of Philosophy, and wish to take philosophy as one of the secondary subjects. Such students will be required to make themselves familiar with the ground covered by the undergraduate lectures in philosophy, to do all the private reading assigned in connection with the lectures, and in addition to acquaint themselves in detail with the works of some philosophical writer.

In 1892–93 Dr. Jacques Loeb, Associate in Physiology and Physiological Psychology, will take the Psychology in the general required course, three hours weekly from November 1st to the end of the semester, while Dr. Shorey will retain the Logic and the History of Philosophy.

In the required course in Philosophy, President Rhoads lectures once weekly on Christian Ethics, and Dr. George A. Barton, Associate in Biblical Study and Semitic Languages, lectures once weekly on the Bible and Biblical Study.

Lectures on Logic, Psychology and the History of Philosophy, Dr. Shorey. *Three times weekly.* ***Required Course.***

The elementary instruction in Logic and Psychology will be based upon the text-books of Jevons and Sully, which will be supplemented by lectures to bring out the historic and literary associations of the subject-matter. In the history of Philosophy the chief stress will be laid upon Bacon, Descartes and Locke, but the lectures will present a brief summary of the general history of speculative thought in Western Europe, with copious definite references for students that care to investigate special points. Comparatively little attention will be given to the post-Kantian metaphysics of Germany.

Lectures on Christian Ethics, President Rhoads. *Once weekly.*

In the first part of the course the lectures will treat of the theory of ethics, includ-

ing an examination of the elements of man's personality as a moral being. The works of Porter, Calderwood, Janet, Martineau and others are referred to, and portions assigned to be read by the class. The applications of moral principles to duty are next considered, especially in the light of Christian ethics. Wayland, Dymond, Dörner and other writers that have treated particularly of duties, are used as books of reference. In the latter part of the course a brief review is given of the chief ethical systems, including some of the most recent.

Lectures on the Origin and Contents of the Books of the Bible, Dr. Barton. *Once weekly.*

Physiological Psychology.

In 1892–93 Dr. Loeb will offer post-major courses in advanced psychology and physiological psychology, as follows:

Advanced Psychology, Dr. Loeb. *Three times weekly throughout the second semester.*

The lectures are intended to serve as an introduction to the science of psychology. They are open as a Free Elective to students that have attended the lectures on general psychology.

The courses both in the general and in the advanced psychology will follow to a certain extent the plan adopted by Professor William James in his Psychology.

Select topics of Physiological Psychology, Dr. Loeb. *Twice weekly throughout the year.*

These lectures will treat special topics in physiological psychology, such as the space-relation. They are open as a Free Elective to students that have had either one year of psychology or a minor course in physics or biology.

Laboratory work in Physiological Psychology, Dr. Loeb. *Three hours weekly throughout the year.*

The laboratory work will illustrate the chief methods of investigation in physiological psychology, and the value of the methods and the results obtained will be discussed with the students.

Comparative Psychology, Dr. Loeb. *Once weekly throughout the year.*

These lectures are designed to draw attention to the relations between the complicated phenomena of physical life in man and similar phenomena in the rest of the animal kingdom.

Art.

Courses in Sculpture and Architecture.

The instruction in the History of Art is under the direction of Dr. Agnes Mathilde Wergeland, Reader in the History of Art.

Dr. Wergeland will also direct the reading of graduate students that may wish to take the history of art as one of the secondary subjects required for the degree of Doctor of Philosophy.

Lectures on the History of Architecture, Dr. Wergeland.

Twice weekly throughout the year.

These lectures will treat of the Greek temple and dwelling-house, Roman buildings, the Christian basilica, and the mediæval cathedral.

Lectures on Greek and Roman Sculpture, Dr. Wergeland.

Once weekly throughout the year.

Mathematics.

The instruction in Mathematics is under the direction of Dr. Charlotte A. Scott, Professor of Mathematics, and Mr. James Harkness, M.A., Associate in Mathematics.

The Major Course is a course in pure mathematics, and in the two years the students will be able to gain a fair knowledge of the principal pure mathematical subjects. It is not proposed to include the applications of mathematics to physics, though courses in dynamics may be arranged from time to time when wanted. The points of contact of mathematics with other branches of mental and physical science will be indicated as far as possible throughout the course, special attention being paid to the nature of mathematical reasoning, and to the true relation and mutual dependence of mathematics and physics, in order that students may obtain just ideas of the scope and province of mathematics. The course of lectures on the history of mathematics in the second year is intended to give an outline of the development of the subject from its beginning to 1700 A.D.

Preparatory Course.

A Preparatory Course of five hours weekly throughout one semester is designed for students entering the college without a sufficient knowledge of those mathematical subjects that are optional in the entrance examination; the lectures will be adapted each year to the requirements of students taking the course; they will, generally speaking, include solid geometry and trigonometry.

Major Course.

FIRST YEAR.

(*Minor Course.*)

1*st Semester.*

Analytical Conics, Dr. Scott. *Five times weekly.*

2*nd Semester.*

First Half.—Algebra, advanced Trigonometry and Theory of Equations, Mr. Harkness. *Five times weekly.*

Second Half.—Elementary Differential and Integral Calculus, Mr. Harkness. *Five times weekly.*

SECOND YEAR.

(*Major Course.*)

1*st Semester.*

Differential and Integral Calculus, Differential Equations, Mr. Harkness. *Five times weekly.*

2*nd Semester.*

Curve Tracing, Analytical Geometry of Three Dimensions, Dr. Scott. *Four times weekly.*

History of Mathematics (about sixteen lectures), Dr. Scott. *Once weekly.*

Group: Mathematics with Physics, or Mathematics with Greek or Latin.

POST-MAJOR COURSE.

(1891–92.)

Post-Major Course. Lectures Introductory to Modern Analytical Geometry, in connection with Salmon's Conic Sections, Dr. Scott. *Three times weekly.*

Lectures Introductory to Modern Algebraical Theories, in connection with Chrystal's Algebra, vol. II., Mr. Harkness. *Twice weekly.*

GRADUATE COURSES.

Graduate Courses. The lectures in the Graduate Course will be varied from year to year; so that, while each year will be complete in itself, a graduate may, if she wish, attend for more than two consecutive semesters. This course will be open in part as a Free Elective to students that have completed the Major Course in Mathematics, with special permission from the instructor.

Differential Equations and Theory of Functions [Forsyth's Differential Equations, and Craig's Linear Differential Equations], Mr. Harkness. *Twice weekly.*

Individual Seminary work, Dr. Scott. *Once weekly.*

Courses of lectures in these subjects, in Modern Geometry, Higher Plane Curves, Elliptic Functions, Modern Algebra, Theory of Numbers, History of Mathematics, etc., and seminary work will be arranged according to the requirements of graduate students taking the course.

SCIENCE.

Physics, Chemistry, Biology.

Professors and instructors: Dr. Edward W. Keiser, Dr. Thomas Hunt Morgan, Dr. Joseph W. Warren, Mr. Arthur Stanley Mackenzie, A.M., Dr. Samuel P. Mulliken, Dr. Jacques Loeb, Dr. Ida A. Keller.

The chemical, biological, and physical laboratories are open for students throughout the day. The chemical laboratory

consists of a lecture-room, a working room, preparation and balance rooms and a chemical library. The supply of apparatus and chemicals has been carefully selected for the purposes of instruction and research, and is increasing from year to year. The chemical library contains besides necessary treatises and reference books complete sets of the most important chemical journals. A similar suite of five rooms is appropriated to the biological department. The biological laboratories are equipped with the best (Zeiss) microscopes, microtomes, etc., and are supplied with apparatus for the study of experimental physiology. A separate building containing a physical laboratory and lecture-room was furnished with apparatus and opened in the autumn of 1887.

In the autumn of 1892 the Trustees expect to open Monmouth Hall, a large building, containing ample laboratories, lecture-rooms, and research-rooms for the work of the scientific departments. A plan of the new building accompanies the present program.

The attention of the graduates of medical colleges and of undergraduate and graduate students intending to take the degree of Doctor of Medicine is called to the facilities offered by the laboratories, and to the recent resolution of the Trustees of the Johns Hopkins University in regard to the admission of women to the Medical School of that University as soon as it shall open.*

* RESOLUTIONS ADOPTED BY THE BOARD OF TRUSTEES ON OCTOBER 28TH, 1890.

"The President and Board of Trustees of the Johns Hopkins University have received from Mrs. Nancy Morris Davis, chairman of one of the committees formed for the purpose of raising a fund to procure the most advanced medical education for women, the gratifying intelligence that $100,000 has been raised for the use of their intended Medical School, and is at their disposal, if they will, by resolution, agree to the terms upon which the money was contributed by its donors.

These terms are that this Board, if it accepts the funds thus raised, shall agree, by resolution, that, when its Medical School shall be opened, women whose previous training has been equivalent to the preliminary medical course † prescribed for men, shall be admitted to such school upon the same terms as may be prescribed for men.

The offer to this University of the particular fund is the free voluntary act of women residing in this State and in other States, made without the suggestion or solicitation of this Board, and we accept it under and subject to the terms which are made a part of the gift, with the understanding and declaration, however, that such preliminary training in all its parts shall be obtained in some other institution of learning devoted, in whole or in part, to the education of women, or by private tuition."

† Preliminary Medical Course as prescribed for men in Johns Hopkins University Register for 1890-91.—Third Group (Chemical-Biological): *Physics*, five hours weekly of class work and three hours weekly of laboratory work throughout one year; *Chemistry*, five hours weekly of class work and five hours weekly of laboratory work throughout

The value of a practical knowledge of biology and chemistry as preliminary or accessory to the professional study of medicine is generally recognised. Through the courtesy of the Woman's Medical College of Pennsylvania, and the Woman's Medical College of the New York Infirmary, allowance will be made in their professional courses for work carried on at Bryn Mawr in the scientific laboratories. Students of Bryn Mawr College that have completed major courses in chemistry and biology will be released from the first year's, or primary, examination in these colleges, and from laboratory practice in chemistry and biology. The courses of Bryn Mawr College in chemistry, biology, and physics correspond to those of the Johns Hopkins University, and it will be easy for the student to pursue a course corresponding to the entire Preliminary Medical Course of the Johns Hopkins University. Every effort will be made to enable students of medicine to complete the studies necessary to their purposes in the shortest possible time.

Physics.

The instruction in Physics is under the direction of Mr. Arthur Stanley Mackenzie, A.M., Lecturer in Physics.

The course extends through two years, but in the first year an elementary treatment of all the subjects is given, making a course complete in itself. Lodge's Mechanics and Thompson's Lessons in Electricity and Magnetism are used in connection with the work of the first semester. In the second semester, Stewart's Treatise on Heat forms the basis of work in Heat. The other subjects are given wholly by lectures.

For the first year's course a knowledge of the elements of trigonometry is required. No knowledge of physics is presupposed.

In the second year use is made of differential and integral calculus. Special arrangements will be made by the instructors in the mathematical department to meet the case of students

two years; *Biology*, five hours weekly of class work and five hours weekly of laboratory work throughout two years, *Logic*, *Ethics*, *Psychology*, etc., five hours weekly for one year; *German*, five hours weekly for one year; *French*, five hours weekly for one year; (or, where French or German has been elected instead of Greek for matriculation, five hours weekly for one year of Latin, Mathematics, Italian and Spanish, or some other subject); and some work in *English*, *History*, and *Physical Geography*, amounting altogether to not more than five hours weekly for one year.

wishing to take this second year's course in physics without electing mathematics.

FIRST YEAR.

(*Minor Course.*)

1*st Semester.*

Mechanics and Electricity, Mr. Mackenzie.	*Five times weekly.*	***Major Course.***
Laboratory work.	*Four hours weekly.*	

2*nd Semester.*

Sound, Heat and Light, Mr. Mackenzie.	*Five times weekly.*
Laboratory work.	*Four hours weekly.*

In the laboratory, the students are first instructed in the methods of accurate measurement of the simple quantities, length, time and weight, and in the laws governing the equilibrium and motion of bodies.

Later, they make determinations of electrical quantities, potential, resistance, capacity, etc.; and problems in heat, sound and light are studied and discussed.

The object of the work is to familiarise the students with the instruments and methods used in physical measurements, with special reference to the quantitative laws upon which the science is based. The laboratory is equipped with this object in view, and the apparatus is all of the most modern design.

Among recent additions should be mentioned a small dynamo and steam-engine, an electro-dynamometer, a cathetometer with two telescopes, made by the Geneva Society for the Construction of Physical Apparatus, and a Rowland diffraction grating.

SECOND YEAR.

1*st Semester.*

Theory of Errors, Mechanics and Electricity, Mr. Mackenzie.	*Five times weekly.*
Laboratory work.	*Five hours weekly.*

2*nd Semester.*

Elementary Thermodynamics, Geometrical and Physical Optics, Mr. Mackenzie.	*Five times weekly.*
Laboratory work.	*Five hours weekly.*

The lectures on Mechanics deal especially with the more important applications to physical problems. Those on Heat and Light consist of an extension of the treatment of the first year, and an endeavor is made to bring the students in contact with the work of original investigators.

In the laboratory work of the second year, more attention is paid to accuracy of measurement than in the first year, and the special problems assigned are adapted as far as possible to the requirements and wishes of the individual students. Special study is made of the sources and amount of the errors involved in the different operations.

Whenever possible, students will be directed to points of investigation left untouched by previous experimenters, or to the study of new methods of experiment and research.

Group: Physics with Mathematics; Physics with Chemistry; or Physics with Biology.

GRADUATE COURSES.

Graduate Courses.

The advanced work in physics will consist of exercises intended to give the student a knowledge of physical methods and operations. There will be lectures from time to time upon selected topics. The courses for graduate

students will be varied from year to year, so as to form a consecutive course for students that wish to make physics one of the chief subjects in the examination for the degree of Doctor of Philosophy.

Chemistry.

The instruction in Chemistry is under the direction of Dr. Edward H. Keiser, Professor of Chemistry, and Dr. Samuel P. Mulliken, Associate in Chemistry.

The courses in chemistry consist of five hours of lectures, or their equivalent, and six hours of laboratory work a week throughout each year. The first year's work, or Minor Course, forms a general introduction to chemical science. In the second year, or Major Course, a more detailed study is made of both organic and inorganic chemistry.

FIRST YEAR.

(*Minor Course.*)

Major Course. *1st Semester.*

Introduction to General Chemistry (Lectures), Dr. Keiser.	*Three times weekly.*
Reviews, Dr. Mulliken.	*Twice weekly.*
Laboratory work.	*Six hours weekly.*

The lectures of the first semester are a general introduction to chemistry. The more important properties of the elements and their compounds are considered, and a thorough study is made of the facts upon which the general laws of chemical action are based. The lectures are illustrated by a series of experiments.

The laboratory is open for the first year students six hours weekly. The laboratory work begins with a series of exercises in manipulation, and in the more frequently occurring chemical operations. The students are taught the use of accurate measuring and weighing apparatus, and made familiar with the calculations employed in quantitative work. Analysis is taught only incidentally, and not as the chief object of the science. While studying the more important properties of the elements and their compounds, considerable attention is devoted to a study of the quantitative relations of the substances with which the students work.

2nd Semester.

General Chemistry (Lectures), Dr. Keiser.	*Three times weekly.*
Reviews, Dr. Mulliken.	*Twice weekly.*
Laboratory work.	*Six hours weekly.*

The lectures and exercises during the second semester are a continuation of the work of the first semester. A thorough study is made of the characters of chemical substances, and the principles of classification are explained. The laboratory work consists of a systematic study of the properties and behavior of the more important elements and compounds, and of a repetition of the more instructive experiments that have been previously performed in the lecture room.

SECOND YEAR.

(*Major Course.*)

1st Semester.

Lectures on Organic Chemistry, Dr. Keiser.	*Three times weekly.*

Lectures on Inorganic Chemistry, Dr. Mulliken. *Twice weekly.*
Laboratory work. *Six hours weekly.*

In the lectures on organic chemistry typical compounds are studied in detail; the general relations existing between classes of compounds, as well as the methods of transforming one class into another, are discussed. In these lectures the experimental processes and the reasoning employed in determining constitutional or structural formulas are considered, and an effort is made to trace out the influence which organic investigations have had in developing the general theories of the science, and in enlarging our conceptions of the ultimate constitution of matter. The lectures on inorganic chemistry consist of a detailed description of the properties of the elements and compounds, and include a brief discussion of analytical processes and methods.

The laboratory work is upon the subjects considered in the lectures; great care is taken to avoid a mere mechanical use of analytical tables, the student being encouraged to devise analytical methods without aid, using only the knowledge that she actually possesses.

2nd Semester.

Lectures on Carbon Compounds, Dr. Keiser. *Three times weekly.*
Lectures on Inorganic Chemistry, Dr. Mulliken. *Twice weekly.*
Laboratory work. *Six hours weekly.*

The laboratory work is continued as in the first semester, the greater portion of the course being devoted to Analytical Chemistry. Towards the end of the semester, some of the typical carbon compounds are prepared and studied in the laboratory.

Group: Chemistry with Biology; or Chemistry with Physics.

Graduate Courses.

Graduate Courses.

Advanced Chemistry, Dr. Keiser and Dr. Mulliken.

This course will consist of exercises intended to give the student a comprehensive knowledge of chemical methods and operations, and of difficult and typical preparations. There will also be lectures from time to time upon selected topics, and upon the more recent researches in organic and inorganic chemistry. The students will make researches on assigned topics, and will be required to become familiar with the literature bearing on their practical work. A knowledge of French and German will therefore be necessary. The courses for graduate students will be varied from year to year, so as to form a consecutive course for students that wish to make chemistry one of the chief subjects of the examination for the degree of Doctor of Philosophy.

Biology.

The instruction in Biology is under the direction of Dr. Thomas Hunt Morgan, Associate Professor of Biology, Dr. Joseph W. Warren, Associate Professor of Physiology, Dr. Jacques Loeb, Associate in Physiology and Physiological Psychology, Dr. Ida A. Keller, Non-Resident Lecturer in Botany.

The undergraduate course in Biology may extend through one, two, or three years, and is equivalent throughout to five hours of lectures and other class exercises and six hours' laboratory practice a week throughout each year. The work of the

first year (minor course) forms a general introduction to the subject through a broad, comparative study of living things (General Biology). In the second year (major course) the foundation of a special knowledge of animal morphology and physiology is laid. The third year's work (post-major), which is offered only to students of marked aptitude, is devoted to advanced courses in special topics, to the study of current biological literature, and to the practical investigation of special problems. A knowledge of the elements of Chemistry and Physics is very desirable for students entering any course in Biology.

FIRST YEAR.

(*Minor Course.*)

Major Course.

1*st Semester.*

Lectures on General Biology, Dr. Morgan. *Five times weekly.*

2*nd Semester.*

Lectures on General Biology, Dr. Warren. *Five times weekly till May.*

Lectures on Systematic Botany, Dr. Keller. *Five times weekly throughout May.*

Laboratory work. *Six hours weekly.*

It is the object of this course to give the student clear conceptions of the fundamental principles of vital structure and action, the outlines of general classification, and the relations of the biological sciences to one another, and to other branches of science. The laboratory practice is designed to enable the student, as far as possible, to examine for herself the facts discussed in the lectures, to encourage the habit of exact observation, to train the eye and the hand, and to impart a knowledge of methods of practical work.

The general subject is treated in two courses which supplement each other and must be taken together. The course in the first semester deals especially with the lower forms of life, the relations of plants and animals, and the more general principles of the science. The course in the second semester is devoted more largely to the higher forms of animal life, with especial reference to physiology.

The work is designed not simply to teach the elements of Zoology and Botany, as commonly understood, but beyond this to consider plants and animals with constant reference to one another, both in their structure and in their mode of action. Stress is therefore laid on the essential facts of comparative morphology and physiology (General Biology) as illustrated by the thorough study of a few types, rather than on the minutiæ of classification. At the same time, the work is arranged with reference to subsequent special work in Zoology, Botany and Physiology.

This necessarily involves an accurate study of vital phenomena in detail, which alone can form the groundwork of any real discipline in the science. The student is, however, led as far as possible to regard facts as illustrations of more general biological truths, and to estimate the importance of these truths beyond the immediate field of the specialist.

In the first semester the student examines a number of animals and plants, so arranged as to form a natural and progressive introduction to the general principles of Biology. After certain general preliminary studies on familiar and highly organised forms, the student makes a detailed examination of unicellular organisms, and from them proceeds gradually to the complex conditions of structure and function found in higher plants and animals. In the second semester attention is given mainly to the

biology of the higher animals. The course ends with a thorough study of the embryology of the chick.

The lectures on Systematic Botany will be accompanied by six hours of laboratory work weekly, which will include field excursions.

SECOND YEAR.

1*st Semester.*

Advanced Physiology and Histology, Dr. Warren. *Five times weekly.*

Laboratory work. *Six hours weekly.*

A knowledge of scientific physiology is here conveyed by a detailed account of the microscopic structure and the mode of working of the higher animal organisms. The application of this knowledge to Hygiene, Medicine, and Psychology is indicated.

The chief organs and tissues of the vertebrate body are examined with the microscope, and much practice in the preparation of histological specimens is obtained. The laboratory is equipped with a stock of physiological apparatus, and the fundamental facts of physiology and the methods of physiological inquiry are learned by means of demonstrations and experiments by the students.

2*nd Semester.*

General Zoology (vertebrate and invertebrate), Dr Morgan.
Five times weekly till Easter, and three times weekly after Easter.

Laboratory work. *Six hours weekly.*

The course in General Zoology extends the work of the first year so as to include a comprehensive survey of the phenomena of animal life, and comprises a systematic presentation of the more important facts of general morphology, with especial reference to the relationships and classification of animals. The course in Vertebrate Zoology treated from the standpoint of Comparative Anatomy is devoted to the morphology of vertebrates, and is designed to serve as a study of vertebrate homologies. In the laboratory thorough dissections are made of typical forms, illustrating the leading groups of animals, and sufficient work is required in systematic zoology to teach the student how to name and classify animals, and to learn the relations between species, genera, and the higher groups. Students looking forward to the study of medicine are recommended to devote especial attention to the anatomy of higher vertebrates and to human and comparative osteology.

Advanced Biology, Dr. Morgan. *Twice weekly after Easter.*

In this course the student is introduced to some of the leading questions of theoretical general biology. The first part of the course is devoted to the history of biological discovery, with especial reference to the development of the more important generalisations and theories of the science. The latter part is mainly occupied with a critical analysis of the theory of evolution and with discussions of the broader philosophical problems of biology, such as heredity, variation, adaptation, animal metamorphoses and kindred topics. These lectures vary somewhat from year to year, and are intended to be suggestive rather than exhaustive in character.

Group: Biology with Chemistry; Biology with Physics.

POST MAJOR COURSES.

Five hours weekly of Post-major Biology is offered students that may have completed the Major Course in Biology. ***Post Major Course.***

Advanced Biology, Dr. Morgan and Dr. Warren. *Five times weekly.*

In 1892-93 students that have completed a major course in Biology, or that have done an equivalent amount of work, may elect advanced courses in Comparative Anatomy, Physiology and Embryology. These courses consist in part of lectures and recitations, but mainly of practical instruction in the laboratory, supplemented by courses of reading. Special topics may be selected according to the wish or abilities of the student, and pursued with direct referenee to original research. In such study students are required to familiarise themselves with the literature of the subject; a knowledge of French and German is therefore indispensable. Such students may specialise either in morphology under the guidance of Dr. Morgan, or in physiology under the guidance of Dr. Warren.

Laboratory work. *Six hours weekly.*

Physiological Psychology, Dr. Loeb. *Twice weekly.*

See under Philosophy, page 66.

Topics in Cryptogamic Botany, Dr. Keller. *Once weekly.*

GRADUATE COURSES.

Graduate Courses. The advanced courses will be varied from year to year, so as to form a consecutive course for students that wish to make biology one of the chief subjects of the examination for the degree of Doctor of Philosophy. Such students may specialise either in morphology under the guidance of Dr. Morgan, or in physiology under the guidance of Dr. Warren.

Advanced Morphology, Dr. Morgan. *Once weekly.*

A course of lectures on the Embryology of the Vertebrata.

The more important embryological problems will be discussed in connection with these lectures. An attempt will be made to present such fundamental questions as gastrulation, acquisition and loss of food-yolk, concrescence, etc., and the evidence given by the ontogeny of vertebrates towards the solution of phylogenetic problems will be examined.

Advanced Physiology, Dr. Warren. *Once weekly.*

Dr. Warren will direct graduate work in advanced physiology in the laboratory, and will give instruction either by directing the reading or by giving lectures, as may seem desirable to those students electing physiology.

Physiology of the central nervous system, with special regard to Psychology, Dr. Loeb. *Once weekly.*

Introduction to Comparative Psychology, Dr. Loeb. *Once weekly.*

The laboratory work accompanying the course on Comparative Psychology will require two or three hours a week.

Advanced Botany, Dr. Keller. *Twice weekly.*

Special topics in Cryptogamic or Physiological Botany will be selected and the lectures will be accompanied by three hours' laboratory work weekly.

Journal Club.

The advanced students will meet for one hour fortnightly for the presentation and discussion of current papers on morphology, physiology, and botany.

Seminary.

It is desired that the advanced students shall meet for one hour every week, alternating with the Journal Club, for the reading and discussion of important topics. The subject for the year 1892-93 has not yet been determined, but will depend somewhat upon the wishes of the advanced students themselves.

Physical Culture.

The health of the students is under the care of Miss McNair, Director of the Gymnasium, and Dr. Ida Richardson, a practicing physician, of Philadelphia, who visits the college every week, and can then be consulted by all the students free of charge.

The gymnasium (see page 78) is open for the use of students from 9 A.M. to 10 P.M. daily. Before admission to the gymnasium each student must be examined by the Director with reference to physical development, strength of heart and lungs, and hereditary tendencies. The exercises prescribed will be strictly individual, varying according to the physical development of the student; their effect will be tested by half-yearly examinations, and great pains will be taken to prevent any over-exertion.

Opportunities for Public Worship.

It was the desire of the Founder that the college should be pervaded by a simple and practical Christianity, and an endeavor will be made to promote this end.

In the vicinity of the college, there are churches of various denominations. Conveyances are supplied to enable students to attend the more distant places of worship, including the Friends' Meeting. There will be daily morning worship in the college.

COLLEGE BUILDINGS.

The college buildings are situated ten miles west of Philadelphia, on the Pennsylvania Railroad, a quarter of a mile from the Bryn Mawr Station; the neighboring country is agreeable and very healthful, and towards the west there is a fine prospect of hills. The college grounds cover forty acres, and include lawns and tennis courts; they are surrounded by private villas.

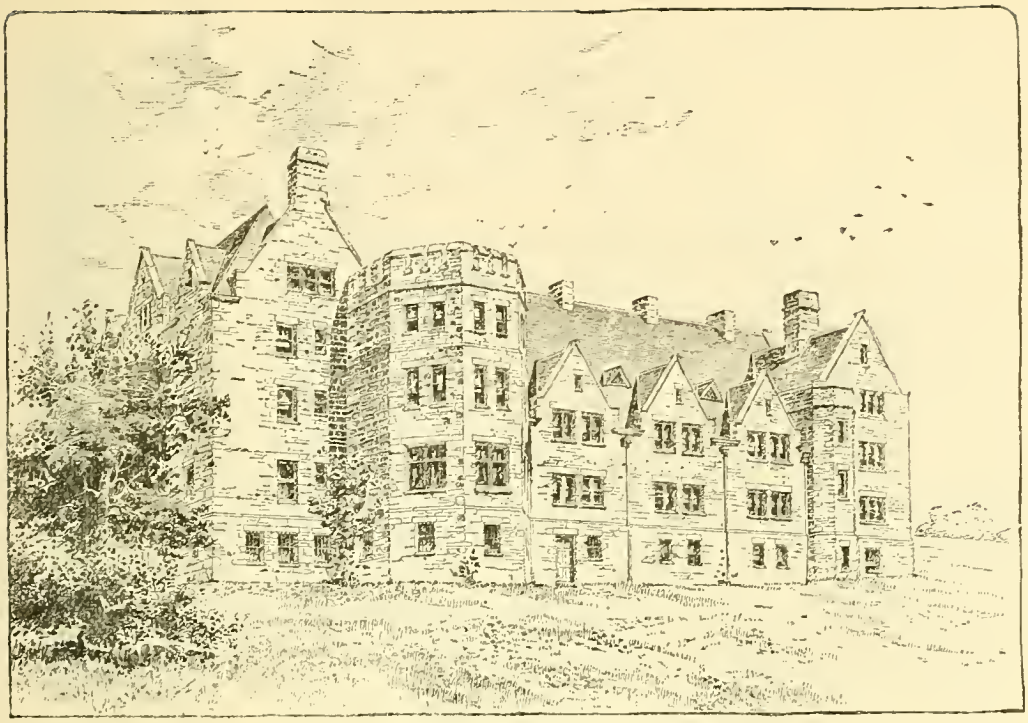
Taylor Hall (named after the founder), a large building of Port Deposit stone, contains the lecture-rooms and laboratories, and the offices of administration. In the autumn of 1892 the scientific departments of the College will be transferred to Dalton Hall, a new building erected by the Trustees out of funds in large part contributed by the generosity of friends of the

College. Taylor Hall will then be entirely occupied by the library and by the remaining academic departments.

Around Taylor Hall it is the intention of the Trustees to erect halls for the accommodation of students. Plans and descriptions of Merion Hall, Radnor Hall, and Denbigh Hall, and a plan of Dalton Hall, are annexed to the present Program.

The Gymnasium is one of the most commodious yet provided for women. It contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather; a room for the Director, to which is attached another for the examination and record of the physical development of the students, and bathrooms for use after exercise. It is open to the students at all times. This gymnasium has been built in accordance with the system of Dr. Sargent; it is furnished with his complete apparatus, and is under the charge of a Director who has completed his course of instruction.

Near the college is a Telegraph Office, Adams' Express Office, and United States Money Order Office. There are good roads in every direction. Riding horses and phaetons may be kept in a livery stable near the college, at a cost of twenty-five dollars a month.



FROM THE NORTH.

RADNOR HALL.

Radnor Hall was the second hall of residence opened, and was completed in 1887. It is built of stone, has its separate kitchen and dining hall, provides accommodation for fifty-seven students and is under the charge of a resident mistress—Mrs. Reginald H. Chase. It contains (*a*) three sets of rooms, comprising each two bed-rooms and a study: (*b*) forty-four single rooms (two of these, numbers 54 and 55, being on the fourth floor); (*c*) numbers 56 and 57, two large fourth floor rooms, each large enough to be occupied by two students, and (*d*) three sets of two rooms, each set to be occupied by one student. There is provided for each student a bookcase, a study-table, an arm-chair and a student-lamp. The rooms are carpeted and completely furnished. The building is lighted by gas.

Board is charged at the rate of $150 a year.

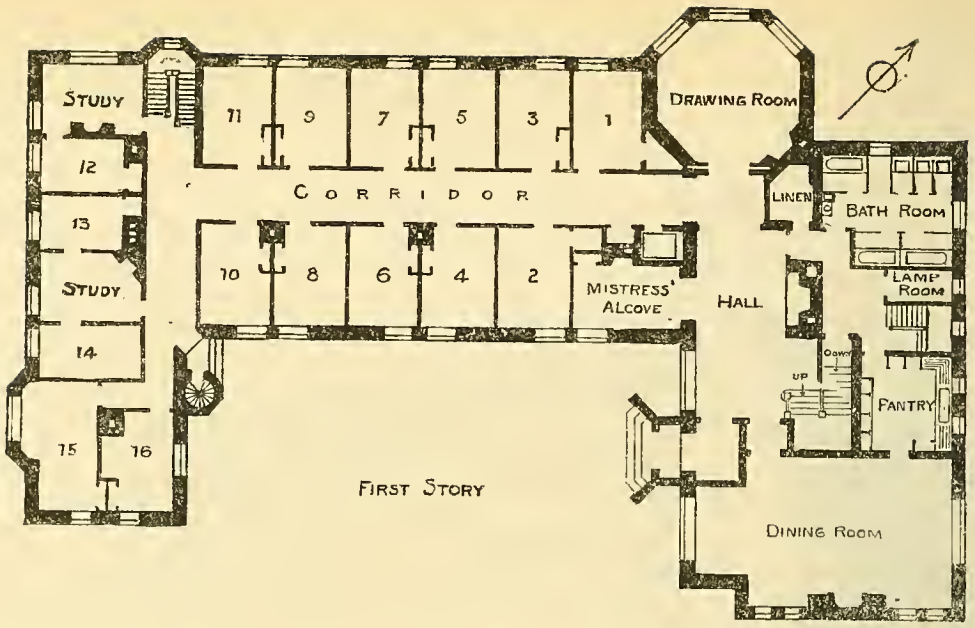
The tariff for rooms for each student, exclusive of board, is for rooms (*a*), $150 a year; for rooms (*b*) and (*c*), $125 a year; for rooms (*d*), $250 a year. Since the demand for college rooms is very great and every room unnecessarily reserved may prevent some other student from entering college application for rooms should be made as early as possible, and must be accompanied by a deposit of fifteen dollars, which will be deducted from the first college bill.

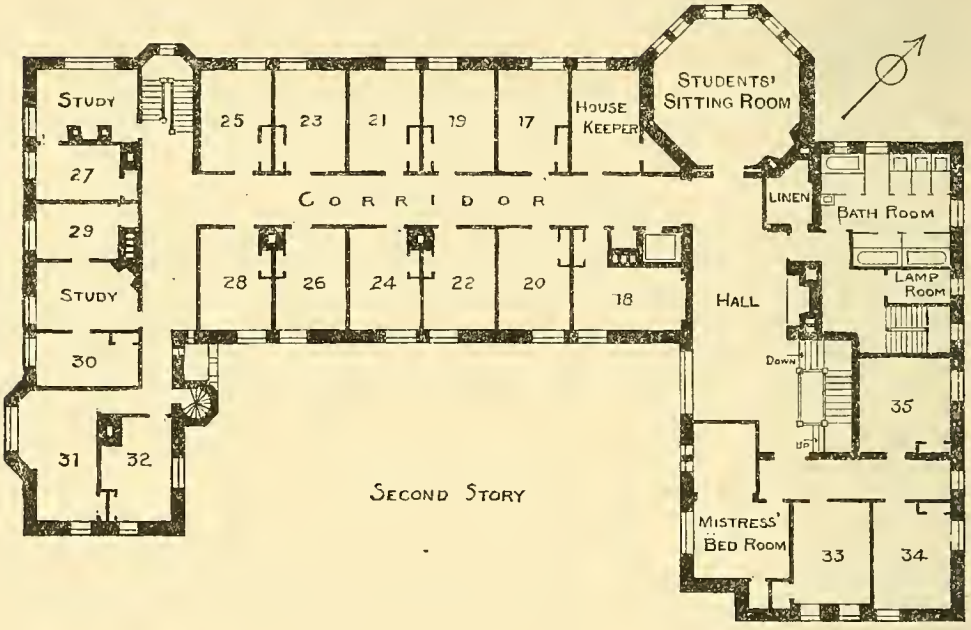
The above-mentioned charges include all expenses of furnishing, service, heating and light, except open fires and washing. No lamps, towels, table napkins, sheets or supplies of any kind need be brought by the student. No part whatever need be taken by the student in the care of her own room.

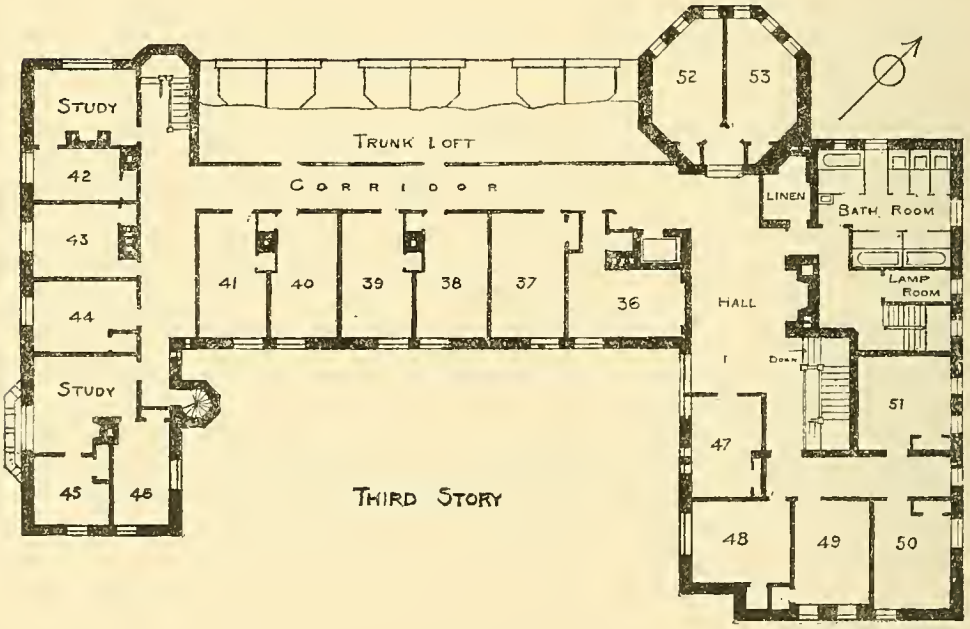
A fixed annual charge ($18 for one dozen pieces a week, and fifty cents a dozen for the washing of plain pieces in excess of this) is made for washing, when students prefer to have their washing done in the college. Students that remain at the college during the winter and spring vacations will be charged seven dollars or eight and a half dollars weekly according to the rooms occupied. The health of the students is under the charge of Dr. Ida E. Richardson, a practicing physician of Philadelphia, who visits the college every week, and can then be consulted by all the students free of charge. No charge is made for sending meals to students that remain in their rooms by the advice of the physician or of the mistress of the hall.

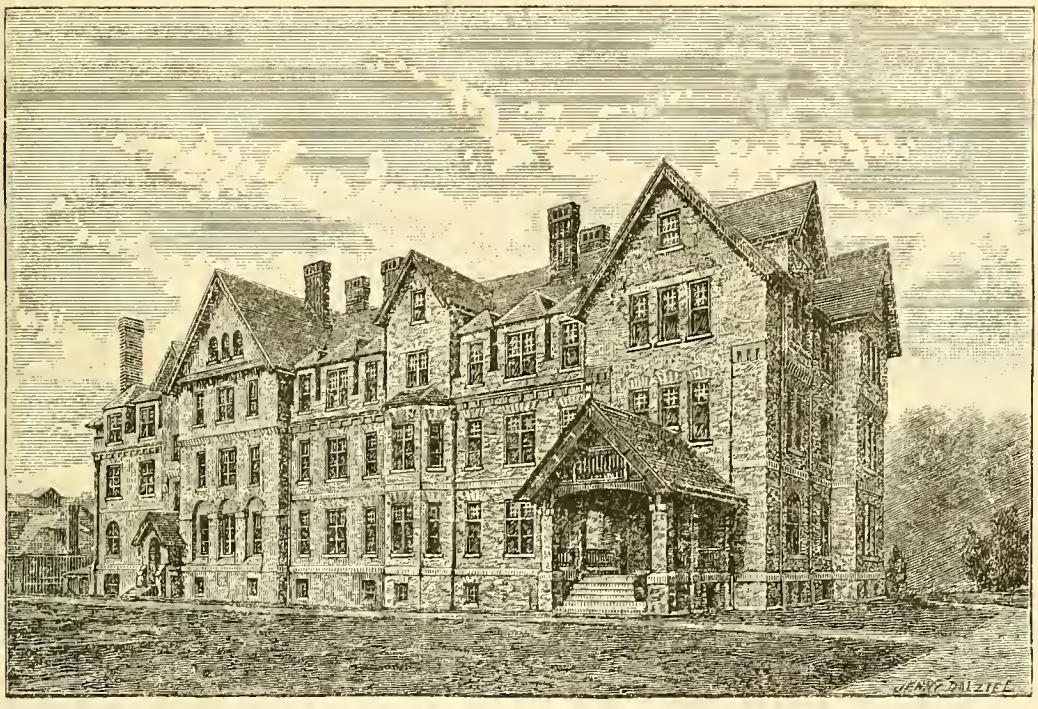
The charges for rooms and board do not include the fee for collegiate instruction, which is $100 a year. See Program, page 37.

The entire charge for board, residence in Radnor Hall, and tuition is therefore (rooms *b* and *c*) $375, (rooms *a*) $400; and (rooms *d*) $500 a year. The room rent and the fee for tuition must be paid in advance at the beginning of each academic year; one-half of the charge for board must be paid in advance at the beginning of each semester.


STUDY
11
9
7
5
3
1
DRAWING ROOM
12
CORRIDOR
LINEN
BATH ROOM
13
10
8
6
4
2
MISTRESS' ALCOVE
HALL
LAMP ROOM
STUDY
14
DOWN
UP
PANTRY
15
16
FIRST STORY
DINING ROOM


STUDY
25
23
21
19
17
HOUSE KEEPER
STUDENTS' SITTING ROOM
27
CORRIDOR
LINEN
BATH ROOM
29
28
26
24
22
20
18
HALL
LAMP ROOM
STUDY
DOWN
30
35
UP
31
32
SECOND STORY
MISTRESS' BED ROOM
33
34


52
53
STUDY
TRUNK LOFT
42
CORRIDOR
LINEN
BATH ROOM
43
41
40
39
38
37
36
HALL
LAMP ROOM
44
DOWN
STUDY
51
47
45
46
THIRD STORY
48
49
50



MERION HALL.

Merion Hall was the first hall of residence opened, and was completed in 1885; it is built of Fairmount stone, has its separate kitchen and dining hall, provides accommodation for about fifty students and is under the charge of a resident mistress—Miss Sophia Kirk. It contains eighteen sets of rooms, comprising each two bed-rooms and a study; twelve ordinary single bed-rooms; three rooms of exceptional size, and one large fourth floor room, number 73, large enough to be occupied by two students. In each study and in eight of the single rooms there is an open fire-place, but the rooms will be sufficiently heated by steam; there is provided for every student a bookcase, a study-table, an arm-chair and a student-lamp. The rooms are carpeted and completely furnished. The building is lighted by gas, and warmed by currents of air passing over steam-heated pipes.

Board is charged at the rate of $150 a year.

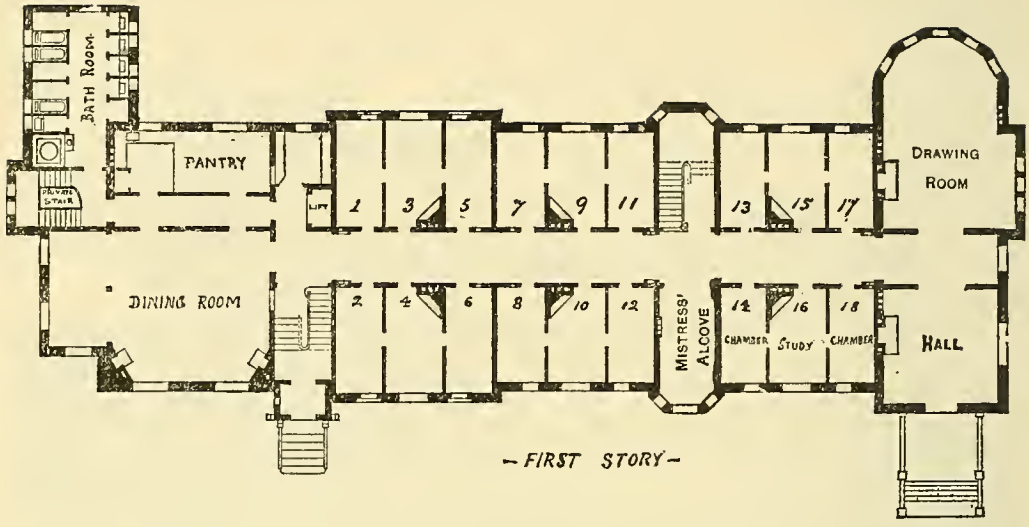
The tariff for sets of rooms is $300 a year or $150 for each student; the tariff for rooms for each student, exclusive of board, is, for rooms numbers 66, 38, and 67 (fourth floor) $125 a year; for room 75, $100 a year; for room 65, $275, and for room 74, $225 a year; and for the double room (fourth floor), 73, $125 for each student. Since the demand for college rooms is very great and every room unnecessarily reserved may prevent some other student from entering college, application for rooms should be made as early as possible, and must be accompanied by a deposit of fifteen dollars, which will be deducted from the first college bill.

The above-mentioned charges include all expenses of furnishing, service, heating, and light, except open fires and washing. No lamps, towels, table napkins, sheets or supplies of any kind need be brought by the student. No part whatever need be taken by the student in the care of her own room.

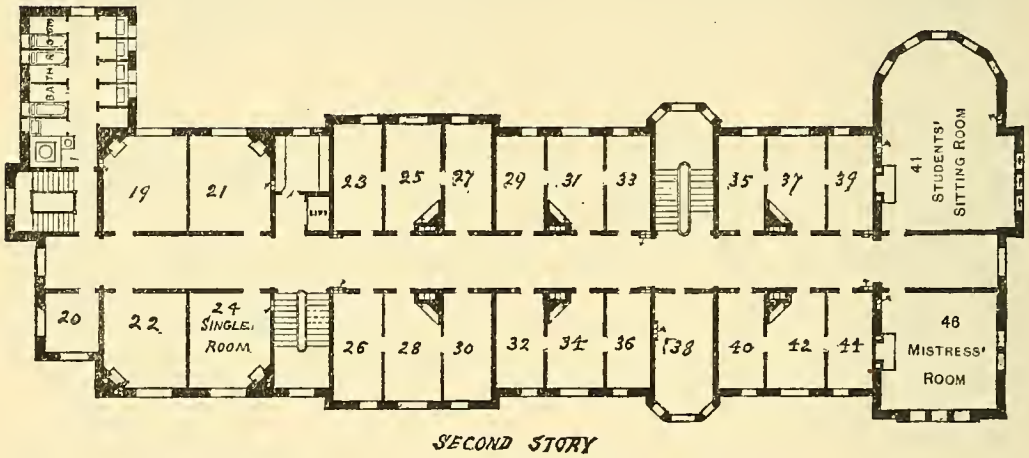
A fixed annual charge ($18 for one dozen pieces a week, and fifty cents a dozen for the washing of plain pieces in excess of this) is made for washing, when students prefer to have their washing done in the college. Students that remain at the college during the winter and spring vacations will be charged seven dollars or eight and a half dollars weekly according to the rooms occupied. The health of the students is under the charge of Dr. Ida E. Richardson, a practicing physician of Philadelphia, who visits the college every week, and can then be consulted by all the students free of charge. No charge is made for sending meals to students that remain in their rooms by the advice of the physician or of the mistress of the hall.

The charges for rooms and board do not include the fee for collegiate instruction, which is $100 a year. See Program, page 37.

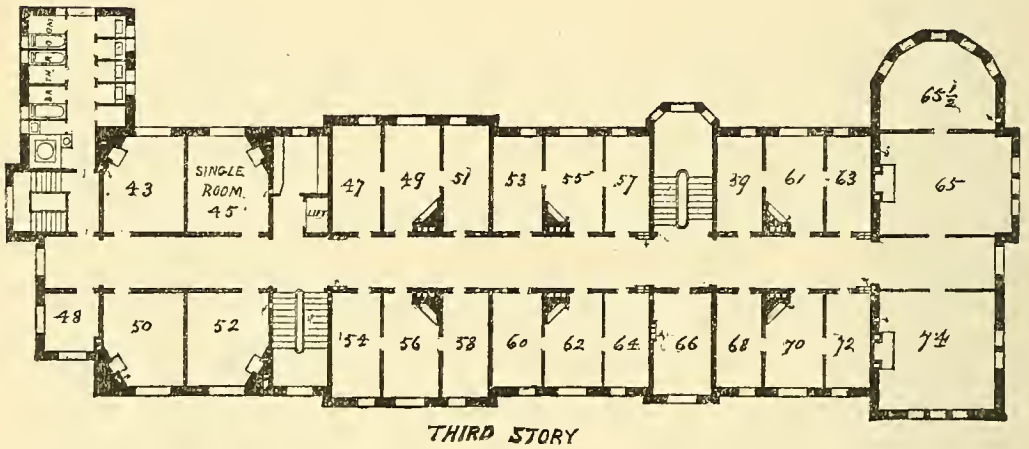
The entire charge for board, residence in Merion Hall, and tuition is therefore $400 (except in rooms 38, 65, 66, 67, 73, 74, 75) a year. The room rent and the fee for tuition must be paid in advance at the beginning of each academic year; one-half the charge for board must be paid in advance at the beginning of each semester.



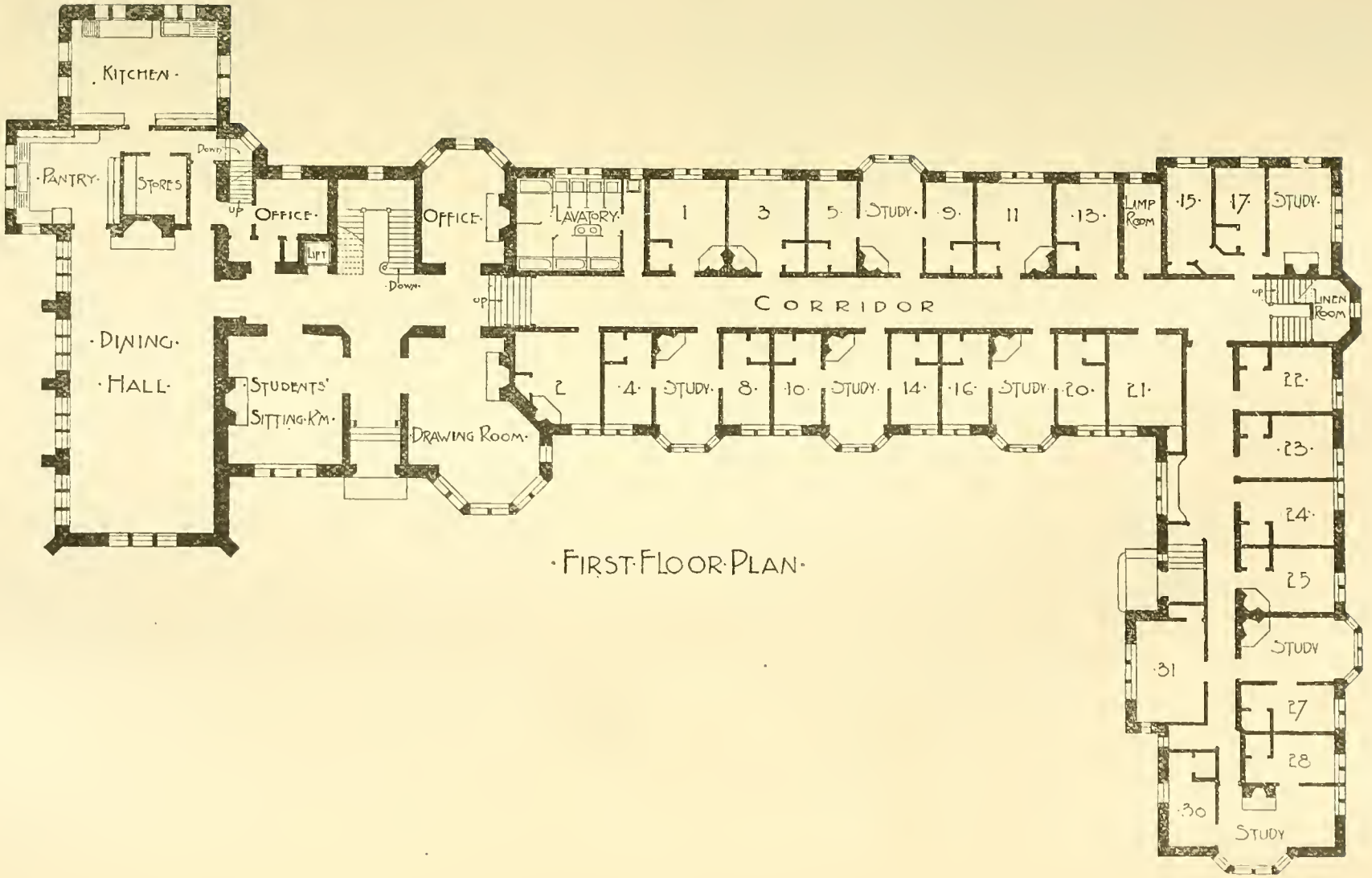
– FIRST STORY –



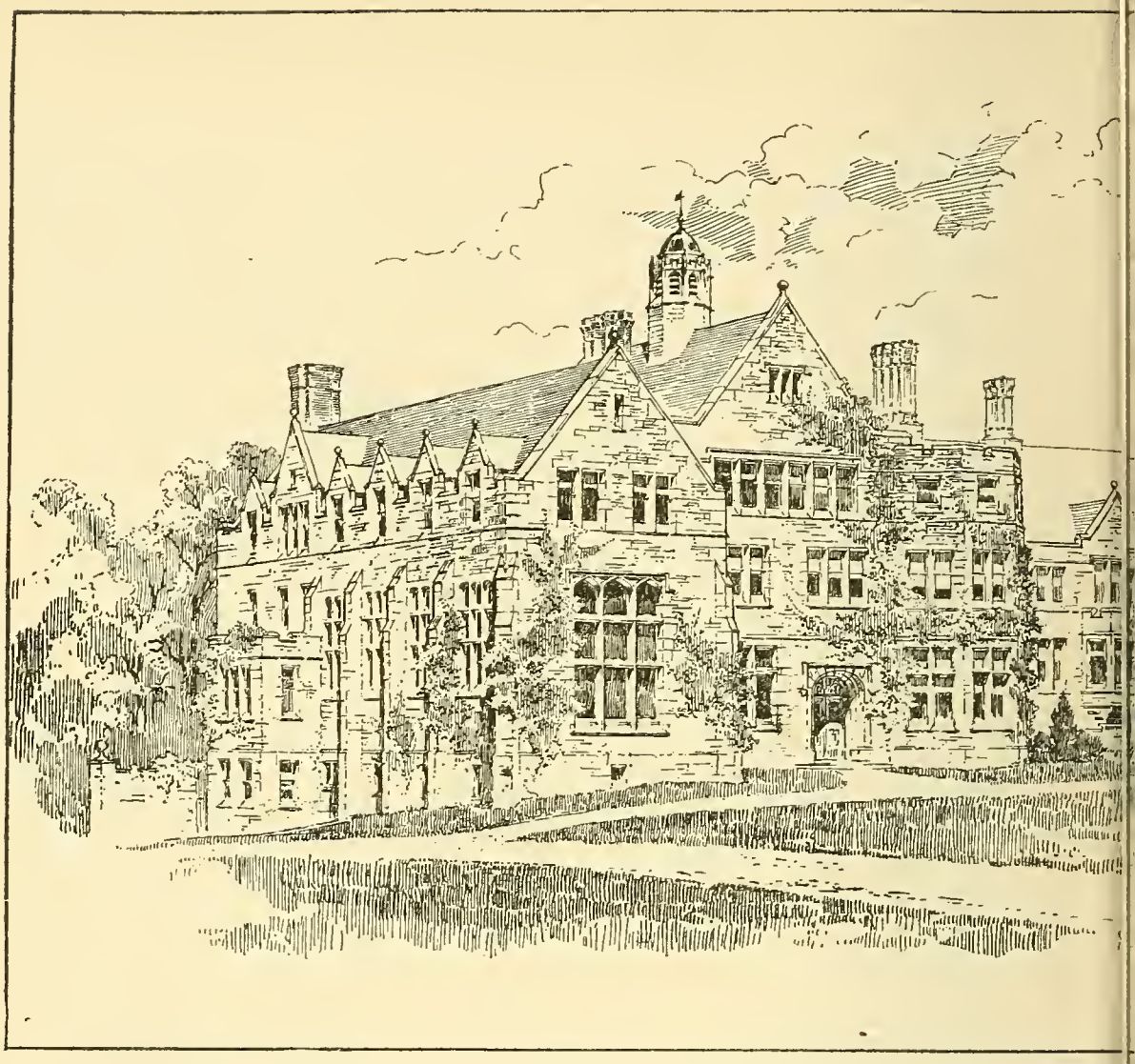
SECOND STORY



THIRD STORY



FIRST FLOOR PLAN



FROM T

DENBI

Denbigh Hall was the third hall of residence opened, and was completed in 1891. It is l
is under the charge of a resident mistress—Mrs. Agnes M. Derkhiem-Irwin. It contains (*a*)
for one student, and one set of rooms comprising two bed-rooms and an unusually large study;
ding, but somewhat less commodious; (*d*) four sets of rooms, comprising each two bed-rooms a
smaller; (*f*) sixteen single rooms; (*g*) thirteen single rooms somewhat smaller than the preced
rooms will be sufficiently heated by steam. There is provided for each student a bookcase, a
The building is lighted by gas, and warmed by currents of air passing over steam-heated pipes,

Board is charged at the rate of $150 a year.

The tariff for rooms for each student, exclusive of board, is for rooms (*a*), numbers 27, 67, 4
73 (third floor over number 37), $225 a year; for rooms (*c*), numbers 4–8, 5–9, 10–14, 16–20, an
38), $175 a year; for rooms (*e*), numbers 43–47, 46–50, 49–53, 55–59, $150 a year; for rooms (*f*), n
keeper's room and staircase), and 77 (fourth floor and large enough to be occupied by two stude
a year. Since the demand for college rooms is very great and every room unnecessarily reserv
early as possible, and must be accompanied by a deposit of fifteen dollars, which will be deduct

A fixed annual charge ($18 for one dozen pieces a week and fifty cents a dozen for the washi
done in the college. Students that remain at the college during the winter and spring vacation
The health of the students is under the charge of Dr. Ida E. Richardson, a practicing physician
free of charge. No charge is made for sending meals to students that remain in their rooms b

The above-mentioned charges include all expenses of furnishing, service, heating, and ligh
need be brought by the student. No part whatever need be taken by the student in the care of

The charges for rooms and board do not include the fee for collegiate instruction, which is $

The entire charge for board, residence in Denbigh Hall, and tuition is therefore $500, $475,
beginning of each academic year. One-half the charge for board must be paid in advance at th



VEST.

HALL.

tone, has its separate kitchen and dining hall, provides accommodation for sixty students, and
s of two rooms, each set to be occupied by one student; two very large and desirable rooms
set of rooms, comprising two bed-rooms and a study; (*c*) three sets similar to the prece-
y, and two large single bed-rooms; (*e*) four sets similar to the preceding but somewhat
s. In each study and in each of the larger single rooms there is an open fire-place, but the
ble, an arm-chair, and a student-lamp. The rooms are carpeted and completely furnished
system of ventilation is carefully planned.

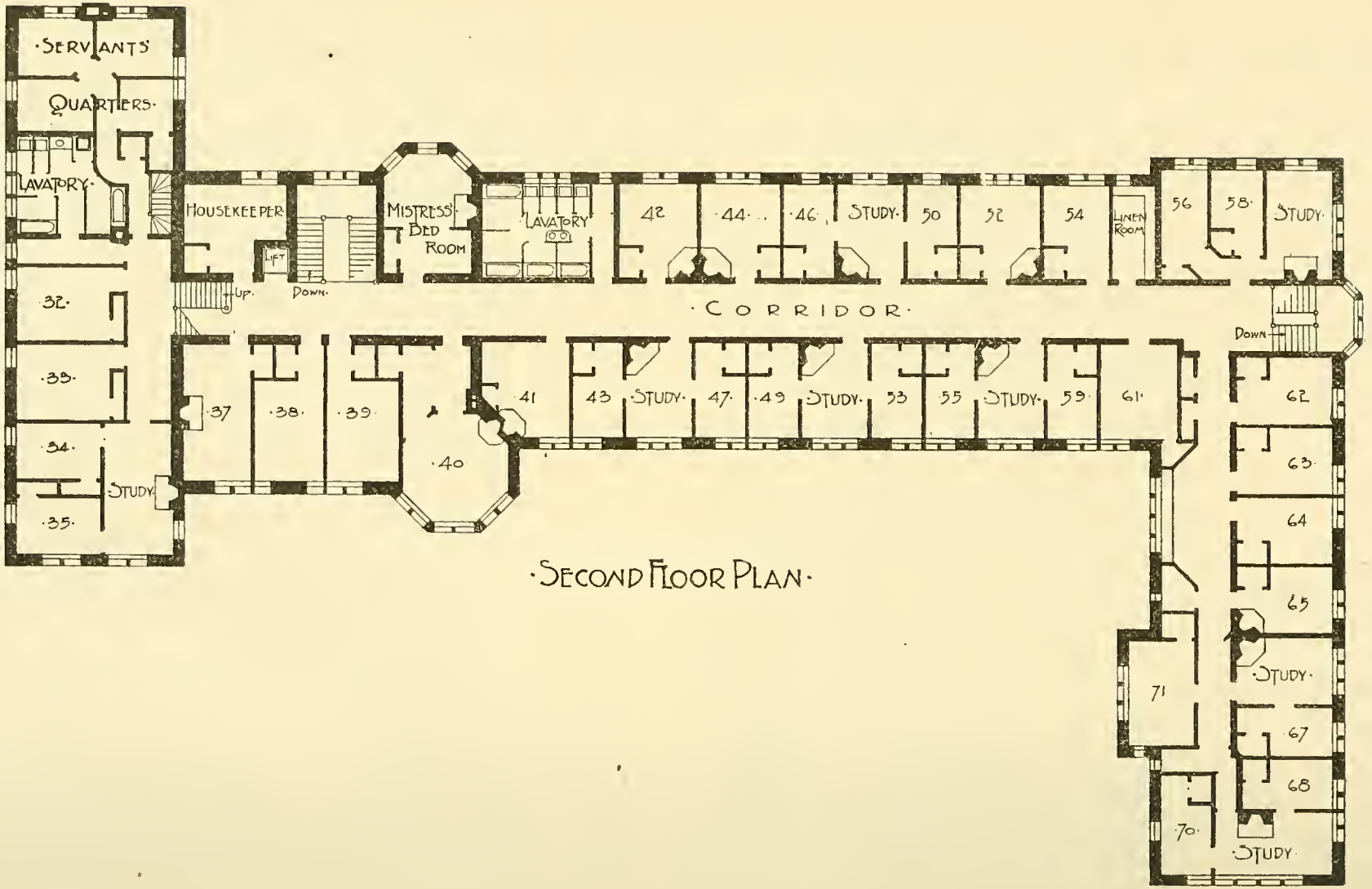
-30, $250 a year; for rooms (*b*), numbers 68–70, 78 (fourth floor over mistress' bedroom), and
00 a year; for rooms (*d*), numbers 15–17, 34–35, 56–58, 39, and 75 (on third floor over number
1, 2, 3, 11, 21, 31, 32, 33, 38, 39, 41, 42, 44, 52, 61, 71 (72 and 74 on the third floor over house-
0 a year; for rooms (*g*), numbers 13, 22, 23, 24, 25, 54, 62, 63, 64, 65, and 76 (fourth floor), $125
revent some other student from entering college application for rooms should be made as
he first college bill.

in pieces in excess of this) is made for washing when students prefer to have their washing
charged seven dollars or eight dollars and a half weekly according to the rooms occupied.
delphia, who visits the college every week, and can then be consulted by all the students
vice of the physician or of the mistress of the hall.

open fires and washing. No lamps, towels, table napkins, sheets or supplies of any kind
room.

ar. See program, page 37.

5, $400, or $375 a year. The room rent and the fee for tuition must be paid in advance at the
ng of each semester.



SECOND FLOOR PLAN

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PROGRAM

BRYN MAWR COLLEGE.

1893.

PHILADELPHIA :
ALFRED J. FERRIS, PRINTER.
1893.

BRYN MAWR COLLEGE.

College Calendar.

1893.

JANUARY.

Su.	M.	Tu.	W.	Th.	Fr.	Sa.
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1894.

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The present academic year will close with the Conferring of Degrees by the Trustees at eleven o'clock, on June 1st, 1893.

There will be a winter recess from December 21st, at three o'clock, to

January 4th, at nine o'clock; and a spring recess from March 28th, at three o'clock, to April 5th, at nine o'clock.

The first semester will end February 3rd; half yearly examinations will be held during the last two weeks of the semester, from January 23rd to February 3rd.

The lectures and class-work of the ninth academic year will begin October 3rd, 1893, at nine o'clock, and will close June 7th, 1894.

There will be a winter recess from December 20th, 1893, at three o'clock, to January 4th, 1894, at nine o'clock; and a spring recess from March 20th, at three o'clock, to March 28th, at nine o'clock.

The first semester will end February 2nd, 1894; half yearly examinations will be held during the last two weeks of the semester, January 22nd to February 2nd.

Examinations for matriculation will be held during the week preceding the opening of each academic year, and also during the last week of each academic year. Examinations for matriculation will also be held during the last week of the first semester of each year, January 30th to February 3rd, 1893, and January 29th to February 2nd, 1894, but only at Bryn Mawr College, and for those candidates only that intend to enter College at the half year.

May, 1893.		September, 1893.	
26.		25.	
English,	10—12½	*English*,	10—12½
Geometry,	3—5½	*Geometry*,	2—4½
27.		26.	
Algebra,	9—12	*Algebra*,	9—12
French,	3—6	*French*,	2—5
29.		27.	
Latin Composition,	9—10½	*Latin Composition*,	9—10½
Cæsar and Cicero,	10½—12½	*Cæsar and Cicero*,	10½—12½
Science,	2—4	*Science*,	2—4
30.		28.	
Virgil,	9—10½	*Virgil*,	9—10½
History,	11—1	*History*,	10½—12½
German,	3—6	*German*,	2—5
31.		29.	
Greek,	9—12	*Greek*,	9—12
Solid Geometry and Trigonometry,	2—5	*Solid Geometry and Trigonometry*,	2—5

JUNE, 1894.

1.

English, ... 10—12½
Geometry, ... 3—5½

2

Algebra, ... 9—12
French, ... 3—6

4.

Latin Composition, ... 9—10½
Cæsar and Cicero, ... 10½—12½
Science, ... 2—4

5.

Virgil, ... 9—10½
History, ... 11—1
German, ... 3—6

6.

Greek, ... 9—12
Solid Geometry and Trigonometry, 2—5

SEPTEMBER, 1894.

24.

English, ... 10—12½
Geometry, ... 2—4½

25.

Algebra, ... 9—12
French, ... 2—5

26.

Latin Composition, ... 9—10½
Cæsar and Cicero, ... 10½—12½
Science, ... 2—4

27.

Virgil, ... 9—10½
History, ... 10½—12½
German, ... 2—5

28.

Greek, ... 9—12
Solid Geometry and Trigonometry, 2—5

Board of Trustees.

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President.

John B. Garrett,
Treasurer.

David Scull,
Secretary.

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James Carey Thomas, Baltimore.
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William R. Thurston, New York.
Albert K. Smiley, Lake Mohonk, N. Y.
Francis R. Cope, Philadelphia.
Philip C. Garrett, Philadelphia.
Howard Comfort, Philadelphia.

Academic Appointments.

James E. Rhoads, LL.D., *President of the College.*

M. Carey Thomas, Ph.D., *Dean of the Faculty and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877–78; University of Leipsic, 1879–82; Ph.D., University of Zürich, 1882; Sorbonne and the Collége de France, 1883.

Charlotte Angas Scott, D.Sc., *Professor of Mathematics.*

Lincoln, England. Graduate in Honors, Girton College, University of Cambridge, England, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, 1880–84; lectured in connection with Newnham College, University of Cambridge, England, 1880–83; D.Sc., University of London, 1885.

Edward Washburn Hopkins, Ph.D., *Professor of Greek, Sanskrit, and Comparative Philology.*

A.B., Columbia College, 1878; Fellow in Literature, Columbia College, 1878–81; University of Leipsic, 1878–81; University of Berlin, 1880; Ph.D., University of Leipsic, 1881; Sorbonne and the Collége de France, 1881; Assistant in Latin and Instructor in Zend, Columbia College, 1881–84.

Edward H. Keiser, Ph.D., *Professor of Chemistry.*

S.B., Swarthmore College, 1880; Assistant in Chemistry, Swarthmore College, 1880–81; S.M., Swarthmore College, 1881; Fellow in Chemistry, Johns Hopkins University, 1882–84; Ph.D., Johns Hopkins University, 1884; Student at the Royal School of Mines, Freiberg, Saxony, 1884; Assistant in Chemistry, Johns Hopkins University, 1884–85.

Hermann Collitz, Ph.D., *Associate Professor of German, and Teutonic Philology.*

Bleckede, Hanover, Germany. University of Göttingen, 1875–78; University of Berlin, 1878–81; Ph.D., University of Göttingen, 1878; Privatdocent in the University of Halle, 1885–86.

James Harkness, A.M. (*Cambridge and London*), *Associate Professor of Mathematics.*

Derby, England. Major Scholar, Trinity College, Cambridge, 1882; Graduate in Honors (8th Wrangler), in the Cambridge Mathematical Tripos, 1885; Mathematical Exhibitioner, London University Intermediate Arts Examination, 1885; Mathematical Scholar, London University B.A. Examination, 1887.

Herbert Weir Smyth, Ph.D., *Professor of Greek.*

A.B., Swarthmore College, 1876, and Harvard University, 1878; University of Leipsic, 1879–81; University of Göttingen, 1881–83; Instructor in Classics and Sanskrit, Williams College, 1883–85; Ph.D., University of Göttingen, 1884; Fellow by Courtesy and Lecturer on Greek, Johns Hopkins University, 1885–87; Reader in Greek Literature, Johns Hopkins University, 1887–88.

Mary Gwinn, Ph.D., *Associate Professor of English.*

Studied at the University of Leipsic, 1879–82; University of Zürich, 1882; Sorbonne and the Collége de France, 1883; Fellow in English, Bryn Mawr College, 1885–87, and Ph.D., Bryn Mawr College, 1888.

Franklin H. Giddings, A.M., *Professor of Political Science.*

A.B., Union College, 1877, and A.M., 1889.

Charles McLean Andrews, Ph.D., *Associate in History.*

A.B., Trinity College, 1884; Fellow in Johns Hopkins University, 1888–89, and Ph.D., 1889.

Gonzalez Lodge, Ph.D., *Associate in Latin.*

A.B., Johns Hopkins University, 1883; Graduate Scholar and Fellow, Johns Hopkins University, 1883–86, and Ph.D., 1886; Professor of Greek, Davidson College, 1886–88; American School of Classical Studies, Athens, 1888–89; University of Bonn, 1889.

GEORGE A. BARTON, PH.D., *Associate in Biblical Literature and Semitic Languages.*

A.B., Haverford College, 1882, and A.M., 1885; A.M., Harvard University, 1890, and Ph.D., Harvard University, 1891.

JOSEPH AUGUSTE FONTAINE, PH.D., *Associate Professor of Romance Languages.*

College of Sion, Nancy, France, 1879; Paris, 1880–81; Johns Hopkins University, 1882–86, and Ph.D., 1886; Collége de France, Sorbonne, Ecole des Hautes Etudes, Ecole des Chartes, University of Bonn, 1886–87; Instructor, University of Nebraska, 1887–89; Professor of Modern Languages in the University of Mississippi, 1889–91.

ARTHUR STANLEY MACKENZIE, A.B., *Associate in Physics.*

A.B., Dalhousie University, 1885; Tutor in Mathematics, Dalhousie University, 1887–89; Fellow, Johns Hopkins University, 1890–91.

JAMES DOUGLAS BRUCE, A.M., *Associate in Anglo-Saxon.*

A.M., University of Michigan, 1883; University of Berlin, 1886–88; University of Strasburg, 1888; Johns Hopkins University, 1889–90; Professor of Modern Languages, Centre College, 1890–91.

THOMAS HUNT MORGAN, PH.D., *Associate Professsor of Biology.*

B.S., State College, Kentucky, 1886, and M.S., 1888; Graduate Scholar, Johns Hopkins University, 1888–90; Fellow in Biology, Johns Hopkins University, 1889–90; Ph.D., Johns Hopkins University, 1890; Adam T. Bruce Fellow, Johns Hopkins University, 1890–91.

JOSEPH W. WARREN, M.D., *Associate Professor of Physiology.*

A.B., Harvard College. 1871; University of Berlin, 1871–72; University of Leipsic, 1872–73; University of Bonn, 1873–79; M.D., Bonn, 1880; Assistant and Instructor in Physiology, Harvard Medical School, 1881–91; Lecturer in Medical Department of the University of the City of New York, 1885–86; Lecturer on Physiology, University of Michigan, 1889.

WILLIAM CRANSTON LAWTON, A.B., *Professor of Greek and Latin Literature.*

A.B., Harvard University, 1873; studied, University of Göttingen, 1876–77; Graduate Student, Harvard University, 1879–80; Member of Archæological Expedition to Assos, 1881; studied, University of Berlin, 1882–83; Acting Professor of Greek, Boston University, 1890–91; Winkley Professor of Latin, Bowdoin College, 1891–92.

DICKINSON SARGEANT MILLER, PH.D., *Associate in Philosophy.*

A.B., University of Pennsylvania, 1888; Graduate Student, University of Pennsylvania, 1888–89; Fellow in Philosophy, Clark University, 1889–90; Morgan Fellow, Harvard University, 1890–91; Walker Fellow, Harvard University, 1891–92; University of Freiburg, 1892–93; Ph.D., University of Halle, 1893.

ELMER P. KOHLER, PH.D., *Associate in Chemistry.*

A.B., Muhlenburg College, 1889; studied at Johns Hopkins University, 1889–92; Ph.D., Johns Hopkins University, 1892.

ROSE CHAMBERLIN, *Reader in German.*

Great Yarmouth, England. Graduate in Honors, Newnham College, University of Cambridge, England, 1886 (Mediæval and Modern Languages Tripos, First Class).

FREDERIC M. PAGE, *Reader in Romance Languages.*

Collége Chaptal, Paris; attended Studi Superiori, Florence; Instructor in Languages, University of Virginia, 1880–82; Acting Professor of Modern Languages and Literature, University of the South, 1882–83; Professor of Modern Languages and Literature, University of the South, 1883–91.

ABBY KIRK, A. B., *Reader in English.*

A.B., Bryn Mawr College, 1892.

HARRIET RANDOLPH, Ph.D., *Demonstrator in Biology and Reader in Botany.*

A.B., Bryn Mawr, 1889; Ph.D., University of Zürich, 1892.

LEAH GOFF, A.B., *Assistant Demonstrator in Biology.*

A.B., Bryn Mawr College, 1889.

EDGAR BUCKINGHAM, Ph.D., *Associate in Physics.*

A.B., Harvard University, 1887; Assistant in Physics, Harvard University, 1888–89; Assistant in Physics, University of Strassburg, 1889–90; University of Leipsic, 1890–91; Assistant in Physics, Harvard University, 1891–92; Tyndall Scholar of Harvard University, University of Leipsic, 1892–1893; Ph.D., University of Leipsic, 1893.

Florence V. Keys, A.B., *Reader in English.*

A.B., University of Toronto, 1891; Fellow in Greek, Bryn Mawr College, 1891–92; Fellow in English, Bryn Mawr College, 1892–93.

Anna Donaldson McNair, A.B., *Director of the Gymnasium.*

A.B., Antioch College, 1886; studied under Dr. Sargent, 1889–91.

Mary Elizabeth Bates, *Assistant in the Gymnasium.*

Graduate of Boston Normal School of Gymnastics, 1893.

Ida Richardson, M.D., *Physician of the College.*

Florence E. Peirce, *Librarian.*

Henrietta R. Palmer, A.B., *Assistant Librarian.*

Elizabeth Baker, B.S., *Second Assistant Librarian.*

B.S., Purdue University, Lafayette, Indiana, 1886; studied in the New York City Library School, 1891–92.

Julia Cope, A.B., *Secretary.*

Frederika M. Kerr, *Bursar.*

Susan Grimes Walker, A.B., and Madeline Vaughan Abbott, A.B., *Secretaries to the Dean.*

Honorary Corresponding Secretaries.

Mary McMurtrie, A.B., 1104 *Spruce Street*, Philadelphia.

Sophia Weygandt, A.B., *Upsal Street*, Germantown.

Bertha Haven Putnam, 245 *W. 75th St.*, New York City.

Margaret Thomas Carey, A.B. (Mrs. Anthony Morris Carey), 1228 *Madison Avenue*, Baltimore.

Emily Greene Balch, A.B., *Prince Street, Jamaica Plain*, Boston.

Anne Taylor Simpson, A.B. (Mrs. Frank H. Simpson), *College Hill*, Cincinnati.

Catharine Bean Cox, A.B. (Mrs. Isaac M. Cox), San José, Cal.

Alys Whitall Pearsall Smith, A.B., 40 *Grosvenor Road S. W.*, London, England.

Students.

Fellows and Graduate Students for the Academic Year 1892–93.

Annie Crosby Emery, . . *Holder of the Bryn Mawr European Fellowship.*

Ellsworth, Me. A.B., Bryn Mawr College, 1892; Graduate Student in Greek and Latin, Bryn Mawr College.

Susan Braley Franklin, ... *Fellow by Courtesy in Greek.*

Newport, R. I. A.B., Bryn Mawr College, 1889; Fellow in Greek, 1889–90; Graduate Student, Bryn Mawr College, 1890–92; Holder of the American Fellowship of the Association of Collegiate Alumnæ, 1892–93.

Emily W. C. France, ... *Fellow in Greek.*

Tysley near Birmingham, England. Mason's College, Birmingham, England, 1885–87; Girton College, University of Cambridge, England, 1888–92; Classical Tripos, 1892.

RUTH GENTRY, ... *Fellow in Mathematics.*

Stilesville, Ind. Ph.B., University of Michigan, 1890; Fellow in Mathematics, Bryn Mawr College, 1890–91; studied, University of Berlin, 1891–92. Holder of the European Fellowship of the Association of Collegiate Alumnæ, 1891–92.

JANE BOWNE HAINES, ... *Fellow in History.*

Cheltenham, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1892; Graduate Student in History and Political Economy, Bryn Mawr College, 1891–92.

IDA H. HYDE, ... *Fellow in Biology.*

Chicago, Ill. S.B., Cornell University, 1891; Student Assistant and Graduate Student in Biology, Bryn Mawr College, 1891–92.

FLORENCE V. KEYS, ... *Fellow in English.*

Toronto, Canada. A.B., Toronto University, 1891; Fellow in Greek, Bryn Mawr College, 1891–92.

ESTHER B. VANDEMAN, ... *Fellow in Latin.*

Ann Arbor, Mich. A.B., University of Michigan, 1891, and A.M., 1892.

HELEN BARTLETT, ... *English and German.*

Peoria, Ill. Newnham College, 1889; studied in Berlin, 1882–84, and 1890; A.B., Bryn Mawr College, 1892.

MYRA V. BEDINGER, ... *Chemistry and Physics.*

Anchorage, Ky. A.B., Bryn Mawr College, 1891; Teacher in Bellewood Seminary, Anchorage, Ky., 1891–92; Teacher of Science in Mrs. E. L. Head's School, Germantown, Pa.

HATTIE MAY BUDD, ... *English.*

Syracuse, N. Y. A.B., Syracuse University, 1891.

MARTHA BUNTING, ... *Biology.*

Philadelphia, Pa. B.L., Swarthmore College, 1882; studied, University of Pennsylvania, 1888–91; Bryn Mawr College, 1891–92.

KATE HOLLADAY CLAGHORN, ... *Political Science.*

Brooklyn, N. Y. A.B., Bryn Mawr College, 1892.

MABEL PARKER CLARK, ... *English and French.*

New York, N. Y. A.B., Bryn Mawr College, 1889; Fellow in English, Bryn Mawr College, 1889–90; A.M., Bryn Mawr College, 1890; Reader in English, Bryn Mawr College, 1890–93.

JESSIE K. DEWELL, ... *Greek, German and Italian.*

New Haven, Conn. A.B., Vassar College, 1883.

MAE J. EVANS, ... *English.*

Oskaloosa, Io. Ph.B., Penn College, Iowa, 1890.

FRANCES HARDCASTLE, ... *Mathematics.*

London, England. Girton College, University of Cambridge, England, 1888–92; Mathematical Tripos, 1891; Part II., 1892.

MIRIAM ALICE HARRISON, ... *English, History, and Political Science.*

Richmond, Ind. A.B., Earlham College, 1892.

CAROLINE W. LATIMER, ... *Chemistry and Physiology.*

Baltimore, Md. M.D., Woman's Medical College of Baltimore, 1890; Post-Graduate Medical Course, Johns Hopkins Hospital, 1890–91; Graduate Student, Bryn Mawr College, 1891–92.

DOROTHY WILBERFORCE LYON, ... *English.*

Meadville, Pa. A.B., Wells College, 1887; Graduate Student, Bryn Mawr College, 1887–89.

ADA ISABEL MADDISON, ... *Mathematics.*

Reading, England. University of South Wales and Monmouthshire, 1885–89; Girton College, University of Cambridge, England, 1889–92; Mathematical Tripos, 1892; Oxford Greats, 1892.

MARY T. MASON, ... *Political Science.*
Germantown, Pa. A.B., Bryn Mawr College, 1892; Teacher of History in Mrs. E. L. Head's School, Germantown, Pa.

ELEANOR HIESTAND MOORE, ... *Chemistry and Biology.*
Philadelphia, Pa. Vassar College, 1876–78; M.D., Woman's Medical College of Pennsylvania, 1890; Demonstrator of Chemistry in the Woman's Medical College of Pennsylvania; Graduate Student, Bryn Mawr College, 1890–92.

EMMA H. PARKER, ... *Mathematics and Chemistry.*
Charleston, N. H. B.S., Smith College, 1887.

HELEN SLEEPER PEARSON, ... *Mathematics.*
Boston, Mass. A.B., Smith College, 1881, and A.M., 1883; Graduate Student, Bryn Mawr College, 1891–92.

VIRGINIA RAGSDALE, ... *Latin, English, Mathematics.*
Jamestown, N. C. B.S., Guilford College, 1892.

HARRIET C. REITZE, ... *Mathematics.*
Meadville, Pa. A.B., Allegheny College, 1887; Graduate Student, Bryn Mawr College, 1890–92.

SOPHIE S. REYNOLDS, ... *English, French, Political Science.*
Alfred Centre, N. Y. Alfred University, 1888–92.

EDITH F. SAMPSON, ... *Biology.*
Germantown, Pa. A.B., Bryn Mawr College, 1890; Graduate Student, Biology, 1891–92.

STELLA BURGER STEARNS, ... *History and Political Science.*
Duluth, Minn. A.B., University of Minnesota, 1892.

CLARA WALTON, ... *English and Mathematics.*
Cleveland, O. B.S., Wellesley College, 1890.

JULIA S. WHITE, ... *English and Mathematics.*
Belvidere, N. C. B.S., Guilford College, 1890.

Undergraduates.

MADELINE VAUGHAN ABBOTT, . *Group, Greek and Latin*, 1889–91, 1892–93.
Cambridge, Mass. Prepared by Cambridge Latin School, Cambridge, Mass. Harvard Annex, 1891–92.

ELIZA RAYMOND ADAMS, . . *Group, History and Political Science*, 1888–93.
Indianapolis, Ind. Prepared by Girls' Classieal School, Indianapolis, Ind., and by Miss Mary E. Stevens' School, Germantown, Pa.

EDITH AMES, ... *Group, History and Political Science*, 1891–93.
Highlands, N. J. Prepared by Miss Emily L. Bull and by private study.

EMMA LOUISE ATKINS, ... *Group, Chemistry and Biology*, 1889–93.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

SARAH FRANCES ATKINS, . . *Group, History and Political Science*, 1889–93.
Indianapolis, Ind. Classical Course, University of Michigan, 1887–88.

MARY JANNEY ATKINSON, . . . *Group, Chemistry and Biology*, 1890–93.
Lahaska, Pa. Wellesley College, 1888–90.

CORA BAIRD, ... *Group, German and French*, 1892–93.
Merion, Pa. Prepared by Miss Robb, Merion, Pa.

LUCY BAIRD, ... *Group, German and French*, 1891–93.
Louisville, Ky. Prepared by Girls' High School, Louisville, Ky., and by Hampton College, Louisville, Ky.

Grace Peckham Baldwin, ... *Group, German and French*, 1892–93.
Worcester, Mass. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

Susan A. Baldwin, ... *Hearer in Latin and Political Science*, 1891–93.
Milford, Conn. Prepared by Temple Grove, Saratoga, N. Y., and by private study.

Jessie Ellen Barritt, . . *Group, History and Political Science*, 1888–93.
Croydon, England. Prepared by Sidcot School, Somersetshire, England, and The Mount School, York, England.

Elizabeth Conway Bent, ... *Group, Greek and Latin*, 1891–93.
Harrisburg, Pa. Prepared by Mlle. Bonneville's School, Philadelphia.

Mabel Birdsall, ... *Group, Latin and German*, 1890–93.
Glens Falls, N. Y. Prepared by Glens Falls Academy.

Elisabeth Hedges Blauvelt, ... *Group*, ———, 1892–93.
Franklin Park, N. J. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

Mary Boude, ... *Group, History and Political Science*, 1892–93.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

Lydia Truman Boring, ... *Group*, ———, 1892–93.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia.

Elsa Bowman, ... *Group*, ———, 1892–93.
New York City. Prepared by the Brearley School, New York City.

Abby Slade Brayton, ... *Group, Greek and Latin*, 1890–93.
Fall River, Mass. Prepared by B. M. C. Durfee High School, Fall River, Mass., and by Miss Mary E. Stevens' School, Germantown, Pa.

Mary Bidwell Breed, ... *Group, Chemistry and Biology*, 1890–93.
Pittsburgh, Pa. Graduate Pennsylvania College for Women.

Mary Owen Brown, ... *Group, English and French*, 1892–93.
Louisville, Ky. Prepared by the Bryn Mawr School, Baltimore, Md.

Harriet Mather Brownell, ... *Group*, ———, 1892–93.
Bristol, Conn. Prepared by High School, Hartford, Conn.

Jane Louise Brownell, . . *Group, History and Political Science*, 1889–93.
Bristol, Conn. Prepared by High School, Hartford, Conn., and by private study.

Louise Sheffield Brownell, ... *Group, Greek and Latin*, 1889–93.
New York City. Prepared by Mrs. Griffitts' School, New York City.

Elizabeth Bartram Cadbury, ... *Group*, ———, 1892–93.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

Hannah Warner Cadbury, *Group, History and Political Science*, 1892–93.
Germantown, Pa. Prepared by Friends' School, Germantown, Pa.

Helena Chapin, ... *Group, History and Political Science*, 1892–93.
York, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

Zelma Estelle Clark, ... *Group*, ———, 1892–93.
Kalamazoo, Mich. Wells College, 1887–88.

Anne C. Coleman, ... *Group, History and Political Science*, 1891–93.
Lebanon, Pa. Prepared by Miss Irwin's School, Philadelphia, and by private study.

Clara Beaumont Colton, . . . *Group, Chemistry and Biology*, 1892–93.
Salt Lake City, Uh. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

Mary Hora Connelly, *Hearer in English, German, and History*, 1892–93.
Albany, Ga. Swarthmore College, 1878–80. Brooklyn Normal School for Physical Education, 1891–92. Assistant in Gymnasium, Bryn Mawr College.

LISA BAKER CONVERSE, ... *Group, Greek and German*, 1891–93.
Riverton, N. J. Prepared by The Bryn Mawr School, Baltimore, Md., and by private study.

SARAH WILSON DARLINGTON, ... *Group, Greek and Latin*, 1890–93.
Glen Mills, Pa. Prepared by Friends' Graded School, West Chester, Pa., and by Friends' Central School, Philadelphia.

LOUISE DUDLEY DAVIS, ... *Group, Chemistry and Biology*, 1891–93.
Maplewood, N. J. Prepared by Dearborn-Morgan School, Orange, N. J.

ABIGAIL CAMP DIMON, ... *Group, Chemistry and Biology*, 1892–93.
Utica, N. Y. Prepared by Mr. George C. Sawyer, Utica Academy, Utica, N. Y.

MASA DOGURA, ... *Group,* ———, 1892–93.
Yamato, Japan. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa., and by Miss Mary E. Stevens' School, Germantown, Pa.

LUCY MARTIN DONNELLY, ... *Group, Greek and Latin*, 1889–93.
Brooklyn, N. Y. Prepared by Adelphi Academy, Brooklyn, N. Y.

GRACE A. ELDER, ... *Group, Latin and Mathematics*, 1889–93.
Philadelphia, Pa. Prepared by Wellesley Preparatory School, Philadelphia, and by private study.

MARY FRENCH ELLIS, ... *Group,* ———, 1891–93.
Philadelphia, Pa. Prepared by Miss Boyer's School, Philadelphia.

RUTH EMERSON, ... *Group, Greek and Latin*, 1889–93.
New York City. Prepared by Miss Gibbons' School, New York City.

CLARA E. FARR, ... *Group, Greek and Latin*, 1892–93.
Wenonah, N. J. Prepared by Wellesley Preparatory School, Philadelphia.

MARY FLEXNER, ... *Group, History and Political Science*, 1891–93.
Louisville, Ky. Prepared by Girls' High School, Louisville, and by private study.

BLANCHE DAVIS FOLLANSBEE, ... *Group, Latin and French*, 1890–93.
Chicago, Ill. Wells College, 1889–90.

CAROLINE REEVES FOULKE, ... *Group,* ———, 1891–93.
Richmond, Ind. Prepared by Miss Mary E. Stevens' School, Germantown, Pa., and by Fraülein Rembrecht, Berlin.

SUSAN FOWLER, ... *Group, Greek and Latin*, 1891–93.
Baltimore, Md. Prepared by St. Timothy's School, Catonsville, Md.

LOUISE OLIPHANT FULTON, ... *Group, Greek and Latin*, 1889–93.
Philadelphia, Pa. Prepared by Mrs. Sutton's School, Philadelphia, and by R. H. Fulton, D.D.

ROSALIE ALLAN FURMAN, ... *Group, Chemistry and Biology*, 1891–93.
Evansville, Ind. Prepared by Evansville High School, and by private study.

RUTH WADSWORTH FURNESS, ... *Group, Greek and English*, 1892–93.
Chicago, Ill. Prepared by Miss Rice's Collegiate School for Girls, Chicago, Ill.

LEONIE GILMOUR, ... *Group, Chemistry and Biology*, 1891–93.
New York City. Prepared by The Bryn Mawr School, Baltimore, Md.

MARY AGNES GLEIM, ... *Group, Latin and English*, 1892–93.
Philadelphia, Pa. Prepared by private study.

PAULINE D. GOLDMARK, ... *Group,* ———, 1892–93.
New York City. Prepared by The Brackett School, New York City.

ANNA BRIGHT GREEN, ... *Group, German and French*, 1892–93.
Reading, Pa. Prepared by Reading High School, by Professor Laroche, and by private study.

BELLA MIRA GROSSMANN, ... *Group, English and German*, 1891–93.
New York City. Prepared by The Brearley School, New York City.

ELIZABETH GLEIM GUILFORD, . . *Group, Mathematics and Physics*, 1890–93.
Lansdowne, Pa. Swarthmore College, 1889–90.

EMMA LYDIA HACKER, ... *Group, Chemistry and Biology*, 1888–93.
Westbrook, Me. Prepared by Friends' School, Providence, R. I.

HELEN EAYRE HAINES, ... *Group*, ———, 1892–93.
Vincentown, N. J. Prepared by Miss Randolph's School, Baltimore, Md., and by Miss Mary E. Stevens' School, Germantown, Pa.

ANNETTE L. HALL, ... *Group, Greek and Latin*, 1890–93.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by private study.

EDITH ROCKWELL HALL, . . *Group, History and Political Science*, 1888–93.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

EDITH HAMILTON, ... *Group, Greek and Latin*, 1891–93.
Fort Wayne, Ind. Prepared by Miss Porter's School, Farmington, Conn., and by private study.

FRANCES BROADHEAD HARRIS, *Group, History and Political Science*, 1888–93.
Germantown, Pa. Prepared by Miss Lambdin's School, Germantown, Pa.

JANE HOWELL HARRIS, . . *Group, Chemistry and Biology*, 1891–93.
Montclair, N. J. Prepared by High School, Montclair, N. J.

MADELINE VAUGHN HARRIS, ... *Group, Latin and* ———, 1891–93.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

LAURA WOOLSEY HEERMANCE, ... *Group*, ———, 1892–93.
New Haven, Conn. Prepared by private study.

GERTRUDE LANGDEN HERITAGE, ... *Group*, ———, 1891–93.
Bryn Mawr, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

MARY DAYTON HILL, ... *Group*, ———, 1892–93.
New Brunswick, N. J. Prepared by Mrs. F. L. Nason and Miss Helen A. Merrill. New Brunswick, N. J.

MARGARET HILL HILLES, . . *Group, History and Political Science*, 1889–93.
Wilmington, Del. Prepared by the Misses Hebb and by Mr. E. L. Doan, Wilmington, Del.

JOSEPHINE BOWEN HOLMAN, ... *Group, Greek and Latin*, 1892–93.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

BESSIE ROBBINS HOOKER, ... *Group, English and French*, 1892–93.
Winter Park, Fla. Rollins College, Winter Park, Fla., 1885–92.

ELIZABETH HOPKINS, ... *Group*, ———, 1892–93.
New York City. Prepared by Miss Gibbons' School, New York City, and by private study.

ELIZABETH FRANCES HOPKINS, . . . *Group, German and French*, 1889–93.
Thomasville, Ga. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

HELEN ROLFE HOPKINS, ... *Group, Chemistry and Biology*, 1889–93.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md. Women's College of Baltimore, 1888–89.

MARY DELIA HOPKINS, ... *Group*, ———, 1892–93.
Clinton, N. Y. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

JENNIE ELIZABETH HORNER, . . . *Group, Chemistry and Biology*, 1891–93.
Philadelphia, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

ELIZABETH S. HOSFORD, ... *Group,* ———, 1892–93.
Philadelphia, Pa. Prepared by Miss Gordon's School, Philadelphia.

FRANCES ELIZABETH HUNT, ... *Group, German and French,* 1888–93.
Scranton, Pa. Prepared by School of the Lackawanna, Scranton, Pa., and by Miss Mary E. Stevens' School, Germantown, Pa.

MARY DENVER JAMES, ... *Group, Latin and French,* 1891–93.
Coshocton, O. Philosophical Course, Wooster University, 1890–91.

MARIANNA JANNEY, ... *Group,* ———, 1891–93.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by Miss Mary E. Stevens' School, Germantown, Pa.

MARY JEFFERS, ... *Group, Greek and Latin,* 1887–88, 1891–93.
Oil City, Pa. Classical Course, Wellesley College, 1885–86.

MARY WARREN JEWETT, ... *Group,* ———, 1892–93.
Moravia, N. Y. Prepared by Granger Place School, Canandaigua, N. Y.

GRACE LLEWELLYN JONES, ... *Group,* ———, 1891–93.
San Francisco, Cal. Prepared by Miss West's School, San Francisco, Cal., and by private tuition.

HILDA JUSTICE, ... *Group,* ———, 1892–93.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

FLORENCE KING, ... *Group, German and French,* 1892–93.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

GEORGIANA GODDARD KING, ... *Group, Greek and English,* 1892–93.
Norfolk, Va. Prepared by The Leache-Wood School, Norfolk, Va., and by private study.

ELIZABETH BUTLER KIRKBRIDE, ... *Group,* ———, 1892–93.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia, and by Miss C. C. Guyer, Philadelphia.

JULIA ETHEL LANDERS, . . . *Group, History and Political Science,* 1889–93.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

JULIA OLIVIA LANGDON, . . *Group, History and Political Science,* 1891–93.
Elmira, N. Y. Prepared by Miss Annie Brown's School, New York City.

MARTHA DIVEN LA PORTE, ... *Group, Greek and Latin,* 1890–93.
Tyrone, Pa. Prepared by Mountain Seminary, Birmingham, Pa.

ELEANOR L. LATTIMORE, ... *Group, Chemistry and Biology,* 1892–93.
Rochester, N. Y. Prepared by Miss Cruttenden's School, Rochester, N. Y.

MARY R. LAWTHER, ... *Group, History and Political Science,* 1891–93.
Dubuque, Io. Prepared by High School, Dubuque, Iowa, and by Miss Mary E. Stevens' School, Germantown, Pa.

ELVA LEE, ... *Group, Greek and Latin,* 1889–93.
Randolph, N. Y. Prepared by Chamberlain Institute, Randolph, N. Y., and by private study.

LUCY LEWIS, ... *Group, History and Political Science,* 1889–93.
Philadelphia, Pa. Prepared by Mr. Robert Truitt, Philadelphia, and by private study.

EMMA HILLMAN LINBURG, ... *Group,* ———, 1892–93.
Trenton, N. J. Prepared by Miss Martha Watson, Trenton, N. J., and Miss S. Y. Ely, Model School, Trenton, N. J.

JESSIE LIVINGSTON LOUDERBACH, ... *Group,* ———, 1890–91, 1892–93.
New York City. Prepared by Miss Jaudon's School, New York City.

FAY MARY MACCRACKEN, ... *Group, Latin and French,* 1890–93.
New York City. Prepared by Miss Graham's School, New York City.

MARGARETTA CAMERON MACVEAGH, . *Group, History and Political Science*, 1890–92.

Philadelphia, Pa. Prepared by Miss Rose Chamberlin, Miss Luella H. Thorne, Miss Edith Child and Miss Jane L. Brownell, of Bryn Mawr College.

ELLA LAURA MALOTT, ... *Group, Physics and Chemistry*, 1891–93.

Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind., and by private study.

LILIAN M. MAPPIN, ... *Group, Greek and Latin*, 1891–93.

Bryn Mawr, Pa. Prepared by Rev. W. F. Mappin, and by private study.

EMILY NORTON MARTIN, ... *Group, Latin and Mathematics*, 1890–93.

Ardmore, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa., and by private study.

MARY ROCKWITH MARTIN, ... *Group, Greek and Latin*, 1890–93.

Ardmore, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

FAITH TRUMBULL MATHEWSON, ... *Group*, ———, 1892–93.

Brooklyn, N. Y. Prepared by Miss Goodwin's School, Brooklyn, N. Y.

REBECCA TAYLOR MATTSON, ... *Group, English and German*, 1892–93.

Breckinridge, Minn. Prepared by Miss Austin, Miss Knorr, and Miss Parigot, Philadelphia.

CARRIE MCCORMICK, ... *Group, History and Political Science*, 1892–93.

Chicago, Ill. Prepared by The Bryn Mawr School, Baltimore, Md.

M. MCCLURE MCKEEHAN, ... *Group*, ———, 1892–93.

Carlisle, Pa. Prepared by Miss Dexter, Metzger Institute, Carlisle, Pa.

CHARLOTTE FRELINGHUYSEN MCLEAN, ... *Group*, ———, 1892–93.

Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, Miss Sandford's School, Philadelphia, and by Professor R. H. Chase.

MARY BELLE MCMULLIN, ... *Group, Greek and Latin*, 1889–93.

Philadelphia, Pa. Prepared by Miss Gordon's School, Philadelphia.

MARY ANNA MENDINHALL, ... *Group*, ———, 1891–93.

Wilmington, Del. Prepared by Friends' School, Wilmington, Del.

HELEN MIDDLETON, ... *Group, History and Political Science*, 1890–93.

Pittville, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

ELISABETH HÖRNLI MIFFLIN, ... *Group, English and* ———, 1890–93.

Wayne, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

MARIE LOUISE MINOR, ... *Group, Chemistry and Biology*, 1890–93.

Brooklyn, N. Y. Prepared by the Packer Collegiate Institute, Brooklyn, N. Y.

HANNAH IRENE MOORE, ... *Group*, ———, 1890–93.

Philadelphia, Pa. Prepared by Miss Cooper's School, Philadelphia, and by private tuition.

ELLEN KEY HOWARD MORGAN, ... *Group*, ———, 1892–93.

Lexington, Ky. Prepared by State College of Kentucky, and by private tuition.

CAROLYN LADD MOSS, . . . *Group, History and Political Science*, 1890–93.

Ottumwa, Io. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

NELLIE NEILSON, ... *Group, Greek and English*, 1889–93.

Philadelphia, Pa. Prepared by Miss Cooper's School, Philadelphia.

MARY NEVILLE, ... *Group, Greek and Latin*, 1891–93.

Lexington, Ky. Prepared by private study, and by Miss Mary E. Stevens' School, Germantown, Pa.

ZELINDA NEVILLE, ... *Group, Greek and Latin*, 1892–93.
Lexington, Ky. Prepared by private study, and by Miss Mary E. Stevens' School, Germantown, Pa.

ELIZABETH NICHOLS, ... *Group, Chemistry and Biology*, 1889–93.
Rosemont, Pa. Prepared by Friends' Central School, Philadelphia.

TIRZAH LAMSON NICHOLS, . . *Group, History and Political Science*, 1892–93.
Rosemont, Pa. Prepared by Friends' Central School, Philadelphia, by Miss Florence Baldwin's School, Bryn Mawr, Pa., and by private study.

ELIZABETH R. NICHOLSON, . . . *Group, Chemistry and Biology*, 1891–93.
Haverford, Pa. Prepared by The Girton School, Haverford, Pa.

MARY NORTHROP, ... *Group, German and French*, 1892–93.
Marquette, Mich. Prepared by Marquette High School, and by Miss Florence Baldwin's School, Bryn Mawr, Pa.

IDA HELEN OGILVIE, ... *Group, Chemistry and Biology*, 1892–93.
New York City. Prepared by The Brearley School, New York City, and by private study.

RACHEL LOUISE OLIVER, ... *Group, Greek and Latin*, 1888–93.
Lynn, Mass. Prepared by Lynn High School and by private study.

ELIZABETH M. PALMER, ... *Group, English and German*, 1892–93.
Madison, Wis. University of Wisconsin, 1890–92.

HENRIETTA R. PALMER, . . *Group, History and Political Science*, 1889–93.
Providence, R. I. Prepared by Providence High School. School of Library Economy, Columbia College, 1887–89. Acting Librarian, Bryn Mawr College, 1890–91.

ANNE RUTHERFORD PEARSON, . *Group, Mathematics and Physics*, 1892–93.
Ithaca, N. Y. Cornell University, 1888–90; Fall term, 1890–91; Spring term, 1891–92.

EDITH PETTIT, ... *Group, History and Political Science*, 1891–93.
Philadelphia, Pa. Prepared by Miss Irwin's School, Philadelphia.

KATHERINE PORTER, ... *Group, Chemistry and Biology*, 1890–93.
Baltimore, Md. Prepared by Friends' Elementary and High School, Baltimore, Md., and by private study; student in Preliminary Medical Course.

LAURETTE EUSTIS POTTS, ... *Group, Latin and English*, 1890–93.
Philadelphia, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa., and by private tuition.

BERTHA HAVEN PUTNAM, . *Group, History and Political Science*, 1889–93.
New York City. Prepared by Miss Gibbons' School, New York City.

ESTELLE REID, ... *Group, History and Political Science*, 1890–93.
New York City. Prepared by Miss Gibbons' School, New York City, and by Miss Flattery, New York City.

ANNA CUSHMAN ROBBINS, ... *Group*, ———, 1891–93.
Wethersfield, Conn. Prepared by High School, Hartford, Conn.

HARRIET ROBBINS, ... *Group, History and Political Science*, 1889–93.
Wethersfield, Conn. Prepared by High School, Hartford, Conn.

AMY CORDOVA ROCK, ... *Group, Chemistry and Physics*, 1889–93.
Washington, D. C. Prepared by High School, Washington, D. C., by Miss Mary E. Stevens' School, Germantown, Pa., and by private study.

ANNA SCATTERGOOD, ... *Group*, ———, 1892–93.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

MARGARET HILLES SHEARMAN, *Group, History and Political Science*, 1890–93.
Wilmington, Del. Prepared by the Misses Hebb, Wilmington, Del., and by Miss Mary E. Stevens' School, Germantown, Pa.

HARRIET RIDGWAY SHREVE, . . . *Group, Latin and Mathematics*, 1891–93.
Plainfield, N. J. Prepared by Miss Pomcroy and Mrs. Sudler, Plainfield, N. J., and by private study.

CLARISSA WORCESTER SMITH, ... *Group*, ———, 1892–93.
Worcester, Mass. Prepared by Miss Heloise E. Hersey's School, Boston, Mass., and by Mr. John W. Dalzell's School for Boys, Worcester, Mass.

JENNIE M. STAADEKER, ... *Group, Chemistry and Biology*, 1890–93.
Louisville, Ky. Prepared by Girls' High School, Louisville, Ky., and by private study.

HELEN R. STAPLES, ... *Group, German and French*, 1889–93.
Dubuque, Io. Prepared by Dubuque High School, and by Lasell Seminary, Auburndale, Mass.

FRANCES DORR SWIFT, ... *Group, Latin and English*, 1891–93.
Wilmington, Del. Prepared by the Misses Hebb's School, Wilmington, Del., and by Mr. W. A. R. Reynolds, Wilmington, Del.

BERTHA SZOLD, ... *Group, Chemistry and Biology*, 1891–93.
Baltimore, Md. Prepared by the Misses Adams' School, Baltimore, Md.

BERTHA ANNA TAYLOR, ... *Group*, ———, 1892–93.
Sewickley, Pa. Prepared by Rev. Mr. Benton, Sewickley, Pa., and by private study.

GERTRUDE ELIZABETH TAYLOR, ... *Group, Greek and Latin*, 1889–93.
Cambridge, O. Prepared by The McDonald Ellis School, Washington, D. C., and by Centenary Collegiate Institute, Hackettstown, N. J.

HELEN WHITALL THOMAS, ... *Group, Greek and Latin*, 1889–93.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

CHARLOTTE DE MACKLOT THOMPSON, ... *Group*, ———, 1892–93.
Baltimore, Md. Prepared by private study.

LYDIA LOIS TILLEY, ... *Group, Mathematics and Physics*, 1891–93.
Berkley, Norfolk County, Va. Prepared by Hemenway High School, and by Norfolk College.

LILLIA M. D. TRASK, ... *Group*, ———, 1891–93.
New Brighton, Staten Island, N. Y. Prepared by Staten Island Academy, and by private study.

RUTH UNDERHILL, . . *Special Student in Mathematics and Physics*, 1892–93.
New York City. Prepared by private study.

EDITH LOUISE VAN KIRK, ... *Group, Latin and French*, 1890–93.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia, and by private study.

SUSAN FRANCES VAN KIRK, ... *Group, Latin and English*, 1889–93.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

ANNA MARTHA WALKER, . . . *Group, Greek and Latin*, 1889–91, 1892–93.
Glen Moore, Pa. Prepared by Darlington Seminary, West Chester, Pa., and by Miss Mary E. Stevens' School, Germantown, Pa.

ETHEL MCCOY WALKER, . *Group, History and Political Science*, 1890–93.
Washington, D. C. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

EVANGELINE HOLCOMBE WALKER, ... *Group, Greek and English*, 1887–88, 1890–93.
Washington, D. C. Prepared by Girls' Classical School, Indianapolis, Ind.

SUSAN GRIMES WALKER, . *Group, History and Political Science*, 1889–93.
Boston, Mass. Prepared by The McDonald Ellis School, Washington, D. C., and by private study.

ADELINE B. WALTERS, ... *Group, Greek and Latin*, 1891–93.
Lansdowne, Pa. Prepared by Friends' Central School, Philadelphia.

MARGARET WARNER, . . . *Group, History and Political Science*, 1891–93.
Hartford, Conn. Prepared by High School, Hartford, Conn.

ELEANOR MERRIKEN WATKINS, . *Group, Latin and Mathematics*, 1892–93.
New York City. Prepared by Miss Gibbons' School, New York City.

ANNA E. WEST, ... *Group*, ———, 1891–93.
Moorestown, N. J. Prepared by Miss Case and Miss Hallowell's Schoool, Philadelphia.

MARION A. WHITEHEAD, . . . *Group, Mathematics and* ———, 1892–93.
Trenton, N. J. Prepared by the State Model School, Trenton, N. J.

AGNES MARY WHITING, ... *Group, Greek and German*, 1888–93.
Springfield, Mass. Prepared by Miss Catharine L. Howard's School, Springfield, Mass.

EMMA STANSBURY WINES, ... *Group, English and French*, 1890–93.
Springfield, Ill. Wellesley College, 1889–90.

EDITH FRANKLIN WYATT, ... *Group*, ———, 1892–93.
Chicago, Ill. Prepared by Miss Rice's Collegiate School for Girls, Chicago, Ill.

ANNA H. YARDLEY, ... *Group, Greek and Latin*, 1890-93.
Milford, Del. Prepared by Milford Classical School.

LOUISE S. YOUNG, ... *Group, History and Political Science*, 1890–93.
Philadelphia, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa., and by private tuition.

Former Fellows, Graduate Students, and Undergraduates that have not taken their Degrees.

EMILY GREENE BALCH, . . *Holder of the Bryn Mawr European Fellowship*, 1889–90.
Jamaica Plain, Mass. A.B., Bryn Mawr College, 1889. Collége de France and the Sorbonne, 1890–91.

KATHARINE MORRIS SHIPLEY, ... *Holder of the Bryn Mawr European Fellowship*, 1890–91.
Cincinnati, O. A.B., Bryn Mawr College, 1890; University of Leipsic, 1890–91; Collége de France and the Sorbonne, 1891–92.

LILIAN VAUGHAN SAMPSON, ... *Holder of the Bryn Mawr European Fellowship*, 1891–92.
Germantown, Pa. A.B., Bryn Mawr College, 1891; Graduate Student in Biology, 1891–92. University of Zürich, 1892–93.

JANE M. BANCROFT,* *Fellow in History*, 1885–86.
West Stockbridge, Mass. Ph.B., Syracuse University, 1877; Ph.M., 1880; and Ph.D., 1884; Professor of French Language and Literature, Northwestern University, 1877–85; University of Zürich, 1886–87, and Collége de France and the Sorbonne, 1888.

CORA AGNES BENNESON, ... *Fellow in History*, 1887–88.
Quincy, Ill. A.B., University of Michigan, 1878; LL.B., 1880; and A.M., 1883.

ELIZABETH MILLER BLANCHARD, ... *Fellow in Mathematics*, 1889–90.
Bellefonte, Pa. A.B., Bryn Mawr College, 1889. Teacher of Mathematics in The Bryn Mawr School, Baltimore, Md., 1891–92.

MABEL P. CLARK, ... *Fellow in English*, 1889–90.
New York City. A.B., Bryn Mawr College, 1889, and A.M., 1890. Reader in English, Bryn Mawr College, 1890–93. Graduate Student in English and French, Bryn Mawr College.

* Mrs. George O. Robinson, 1891.

KATE MAY EDWARDS, ... *Fellow in Greek*, 1888–89.

Ithaca, N. Y. A.B., Cornell University, 1888. Instructor in Greek, Wellesley College.

SUSAN BRALEY FRANKLIN, ... *Fellow in Greek*, 1889–90.

Newport, R. I. A.B., Bryn Mawr College, 1889; Graduate Student, Bryn Mawr College, 1891–92; Fellow by Courtesy, Bryn Mawr College, 1892–93; Holder of the American Fellowship of the Association of Collegiate Alumnæ, 1892–93.

KITTY AUGUSTA GAGE, ... *Fellow in Greek*, 1885–86.

Wilton, N. H. A.B., Boston University, 1878; A.M., Cornell University, 1885. Teacher of Classics in the State Normal School, New Paltz, New York.

RUTH GENTRY, ... *Fellow in Mathematics*, 1890–91.

Stilesville, Ind. Ph.B., University of Michigan, 1890; Holder of European Fellowship of Association of Collegiate Alumnæ, 1891–92; University of Berlin, 1891–92; Fellow in Mathematics, Bryn Mawr College.

MARY GWINN, ... *Fellow in English*, 1885–87.

Baltimore, Md. University of Leipsic, 1879–82; University of Zürich, 1882; Bryn Mawr College, 1887–88. Ph.D., Bryn Mawr College, 1888. Associate in English, Bryn Mawr College.

ELIZABETH HARRIS, ... *Fellow in Greek*, 1890–91.

Germantown, Pa. A.B., Bryn Mawr College, 1890. Teacher of Greek and Latin in The Dutch Reform Collegiate Grammar School, New York City, 1891–92; Teacher of Greek and Latin in Miss Florence Baldwin's School, Bryn Mawr, Pa.

JEAN K. HOWELL, ... *Fellow in Biology*, 1891–92.

Painted Post, N. Y. Ph.B., Cornell University, 1888, and M.S., 1890; Assistant in Botany, Barnard College.

FLORENCE V. KEYS, ... *Fellow in Greek*, 1891–92.

Toronto, Canada. A.B., Toronto University, 1891; Fellow in English, Bryn Mawr College, 1892–93.

ELEANOR LOUISA LORD, ... *Fellow in History*, 1889–90.

Malden, Mass. A.B., Smith College, 1887; and A.M., 1890. Instructor in History, Smith College.

HELEN L. LOVELL, ... *Fellow in Greek*, 1887–88.

Flint, Mich. A.B., University of Michigan, 1887. Teacher of Greek and Latin in Girls' Classical School, Indianapolis, Ind., 1889–90. Associate Professor of Greek and Latin, Woman's College, Baltimore, Md.

GERTRUDE H. MASON, ... *Fellow in English*, 1887–88.

San José, Cal. Ph.B., University of Michigan, 1876. Teacher of English in Petaluma High School.

KATHARINE MERRILL, ... *Fellow in English*, 1890–91.

Abilene, Kan. A.B., Kansas State University, 1889. Graduate Student in English, Bryn Mawr College, 1889–90; Harvard Annex, 1891–92; Instructor in English, University of Illinois.

CAROLINE MILES, ... *Fellow in History*, 1891–92.

Carthage, Ind. A.B., Earlham College, 1887; Michigan University, 1889–91, and A.M., 1890. Teacher of Latin in Friends' Academy, Bloomingdale, Ind., 1888–89. Instructor in History of Philosophy, Mt. Holyoke College.

MARCELLA I. O'GRADY, ... *Fellow in Biology*, 1887–89.

Boston, Mass. S.B., Massachusetts Institute of Technology, 1885. Teacher of Science in The Bryn Mawr School, Baltimore, Md., 1885–87; Demonstrator Biological Laboratory, Bryn Mawr College, 1888–89; Associate Professor of Biology, Vassar College.

HARRIET RANDOLPH, ... *Fellow in Biology*, 1889–90.

Philadelphia, Pa. A.B., Bryn Mawr College, 1889; University of Zürich, 1890–92; Demonstrator in Biology, Bryn Mawr College.

LUCY M. SALMON, ... *Fellow in History*, 1886–87.

Fulton, N. Y. A.B., University of Michigan, 1876, and A.M., 1883. Teacher of History in the Indiana State Normal School, 1883–86; Associate Professor of History, Vassar College.

SARAH E. SATTERTHWAITE,* *Fellow in Greek*, 1886–87.

Marine City, Mich. A.B., University of Michigan, 1886.

HANNAH ROBIE SEWALL, ... *Fellow in History*, 1888–89.

St. Paul, Minn. A.B., University of Minnesota, 1884; A.M., University of Michigan, 1887; Fellow by Courtesy in History, Bryn Mawr College, 1889–90.

EFFIE A. SOUTHWORTH, ... *Fellow in Biology*, 1885–86.

North Collins, N. Y. S.B., University of Michigan, 1885; Student-Assistant in the Biological Laboratory, Bryn Mawr College, 1886–87. Assistant Mycologist of the United States Agricultural Bureau, Washington, D. C., 1887–92. Assistant in Botany, Barnard College.

ANNE A. STEWART, ... *Fellow in Mathematics*, 1886–87.

West Bay, Nova Scotia. Studied in University College, London, 1880–82; B.Sc., Dalhousie College, Halifax, Nova Scotia, 1886. Teacher of Mathematics in Miss Mary E. Stevens' School, Germantown, Pa.

MARGUERITE SWEET, ... *Fellow in English*, 1891–92.

Albany, N. Y. A.B., Vassar College, 1887; Graduate Student, Bryn Mawr College, 1889–90; and Graduate Scholar, 1890–91; Instructor in English, Vassar College.

AGNES MATHILDE WERGELAND, ... *Fellow in History*, 1890–91.

Christiania, Norway. Studied under the direction of Prof. Konrad Mauer, Münich, 1884–86; University of Zürich, 1888–90; Ph.D., University of Zürich, 1890. Reader in History of Art, Byrn Mawr College.

MARY FRANCES WINSTON, ... *Fellow in Mathematics*, 1891–92.

Forreston, Ill. A.B., University of Wisconsin, 1889. Teacher of Mathematics, Downer College, Wisconsin, 1889–91.

ELLA C. WILLIAMS, ... *Fellow in Mathematics*, 1885–86.

Watkins, N. Y. A.M., University of Michigan, 1880; studied under Professor Schwartz of Göttingen, nineteen months, 1883–85; in residence at Newnham College during the spring term of 1884. Teacher of Mathematics in Miss Moses' School, New York City, 1886–87; Teacher in State Normal School, Plymouth, N. H.

IDA WOOD, ... *Fellow in English*, 1888–89.

Philadelphia, Pa. A.B., Vassar College, 1877, and A.M., 1889. Graduate Student in English, Bryn Mawr College, 1887–88; Fellow by Courtesy in English, Bryn Mawr College, 1890–91; and Ph.D., 1891. Secretary of the Woman's Department of the University of Pennsylvania.

EMMA BAIN,† *English*, 1889–90.

Martinsville, Ind. A.B., Indiana State University, 1889.

ETHEL B. BLACKWELL, ... *Biology*, 1891–92.

Somerville, N. J. S.B., Massachusetts Institute of Technology, Biological Department, 1891; Student, Woman's Medical College of the New York Infirmary.

JESSIE BREVITT, ... *Chemistry and Physiology*, 1889–90.

Baltimore, Md. M.D., Woman's Medical College, Baltimore, 1889. Lecturer on Chemistry, Woman's Medical College, Baltimore.

JEANNETTE S. BROWN, ... *Greek*, 1886–87.

Concord, Mass. Graduate Harvard Annex, 1885. Teacher of Greek and Latin in The Brearley School, New York City.

EMILY LOUISA BULL, ... *Chemistry and Biology*, 1891–92.

Oneonta, N. Y. A.B., Bryn Mawr College, 1891. Teacher of Science in Miss Mary E. Stevens' School, Germantown, Pa.

ANNA B. CARROLL, ... *English and History*, 1888–90.

Wilmington, O. A.B., Wilmington College, 1887. Teacher of English, Friends' School, Providence, R. I.

JEANNETTE E. CARTER, ... *Biology*, 1891–92.

Mt. Harmony, West Va. B.Ph., Adrian College, Mich., 1889. Instructor in Botany and Zoölogy, Adrian College, 1889–90.

* Mrs. Francis Alexander Leslie, 1890.

† Mrs. Glen Levin Swiggett.

EVA ST. CLAIR CHAMPLIN, ... *English*, 1891–92.
Alfred Centre, N. Y. L.B., Alfred University, 1887; Lit.M., 1888; Graduate Student, New York State Library School, 1889–90; Librarian and Acting Instructor in English Literature, Alfred University, N. Y.

MARY E. CHISHOLM, ... *English*, 1891–92.
Chisholm, Io. A.B., Drake University, Iowa, 1890.

EDITH DENISE, ... *German and French*, 1889–90.
Burlington, Io. B.L., Lake Forest University, 1885.

MARGARET EASTON, ... *English*, 1891–92.
Philadelphia, Pa. A.B., Pennsylvania College for Women, 1891.

AGNES EMORY, ... *Greek and Latin*, 1886–87.
Lawrence, Kan. A.B., University of Kansas, 1884.

MARY H. FREEMAN, ... *Romance Languages*, 1885–87.
Mumford, N. Y. A.B., Vassar College, 1881, and A.M., 1887. Teacher in the State Normal School, New Paltz, New York.

MARY EASTMAN GALE, ... *Latin and Mathematics*, 1888–90.
Laconia, N. H. A.B., Swarthmore College, 1882, and A.M., 1891. Teacher of Latin in Mrs. E. L. Head's School, Germantown, Pa., and in Miss Baldwin's School, Bryn Mawr, Pa., 1889–91. Teacher of Latin in Mrs. E. L. Head's School, Germantown, Pa.

ANNA GODDARD, ... *History*, 1891–92.
Muncie, Ind. B.L., Earlham College, 1891.

GRACE GODDARD, ... *English*, 1891–92.
Muncie, Ind. B.L., Earlham College, 1891.

LEAH GOFF, ... *Biology*, 1889–90.
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1889. Demonstrator in Biological Laboratory, Bryn Mawr College.

FLORENCE HALL, . . . *Gothic, Middle High German and Spanish*, 1888–89.
Swarthmore, Pa. A.B., Swarthmore College, 1880. Teacher of German in Friends' Central School, Philadelphia.

MARY HAINES, ... *Greek and English*, 1891–92.
Grinnell, Io. A.B., Iowa College, 1890. Assistant in Greek and Latin, Iowa College Academy.

SUSAN RACHEL HARRISON, ... *Greek and Latin*, 1885–87.
Richmond, Ind. A.B., Earlham College, 1883; A.M., Ann Arbor, 1889. Professor of Greek, Earlham College.

CAROLINE E. HILLIARD, ... *Chemistry*, 1885–86.
Northboro', Mass. A.B., Smith College, 1883.

MARCELLA HOWLAND, ... *English and French*, 1891–92.
Lawrence, Kan. A.B., Kansas State University, 1890.

ALICE W. JACKSON, ... *History and Political Science*, 1888–89.
Germantown, Pa. A.B., Swarthmore College, 1883.

HELEN HOWARD JEFFRIES, ... *Latin and Political Science*, 1889–90.
Wooster, O. Ph.B., Wooster College, 1889.

MARY A. JOHNSON, ... *Biology*, 1887–89.
New York City. L.B., Smith College, 1885, and A.M., 1888; Newnham College, University of Cambridge, England, 1886–87; Holder of Scholarship at the Woman's Medical College, Philadelphia, 1889–92; M.D., 1892.

ROSA ELLEN LEWIS, ... *English*, 1888–89.
Oskaloosa, Io. S.B., Penn College, Iowa, 1882, and A.M., 1885. Professor of English Literature and History, Penn College, Iowa.

SARAH ELVA LEWIS, ... *English and History*, 1888–89.
Estacado, Tex. S. B., Penn College, Iowa, 1883. Superintendent of Schools, Estacado, Tex.

MARIAN WILHELMINA MACINTOSH, . . *Graduate Scholar in Greek*, 1890–91.
Philadelphia, Pa. Prepared by Miss Gibson's School, Philadelphia. A.B., Bryn Mawr College, 1890.

GERTRUDE W. MENDENHALL, ... *Mathematics*, 1891–92.
New Garden, N. C. B.S., Wellesley College, 1885.

MARY ELIZABETH MILLER, ... *English and German*, 1890–91.
Beaver Falls, Pa. B.S., Geneva College, 1890.

GEORGIANA LEE MORRILL, ... *English*, 1888–89.
Germantown, Pa. A.B., Vassar College, 1882, and A.M., 1889.

FLORA ALICE NEWLIN, ... *History and Political Science*, 1890–91.
Lawrence, Kan. A.B., Kansas State University, 1889.

JULIA BARLOW PLATT, ... *Biology*, 1888–89.
Burlington, Vt. Ph.B., University of Vermont, 1882; Harvard Annex, 1886–88; Biological Station, Naples, 1891; University of Freiburg-in-Baden, 1891–92.

SARAH M. POTTER,* *English and History*, 1886–87.
Glens Falls, N. Y. A.B., Wellesley College, 1884.

ANNA ELY RHOADS, ... *Greek*, 1889–90.
Bryn Mawr, Pa. A.B., Bryn Mawr College, 1889; University of Leipsic, 1890–91.

ZILLAH M. SHERMAN, ... *English*, 1887–88.
Ashtabula, O. A.B., Wells College, 1882; University of Michigan, 1888–89.

ANNA MORSE STARR, ... *Latin*, 1889–90.
Elyria, O. B.L., Ohio Wesleyan University, 1887.

MARY KINGSLEY TIBBETTS, ... *English*, 1889–90.
Fredericton, New Brunswick. A.B., University of New Brunswick, 1889. Principal of the Gagetown Grammar School, New Brunswick.

BESSIE C. TODHUNTER, ... *Greek and Latin*, 1889–90.
Wilmington, O. A.B., Wilmington College, 1889. Teacher in Martin Academy, Kennett Square, Pa.

MARY TREMAIN, ... *English and History*, 1886–87.
Lincoln, Neb. S.B., Nebraska State University, 1881.

ARLETTA F. WARREN, ... *Latin and English*, 1891–92.
Wooster, O. Ph.B., Wooster University, 1889. Teacher in Beaver Dam High School, Wisconsin, 1889–91.

FLORENCE MEHITABEL WATSON, ... *Latin*, 1889–90.
Northfield, Minn. B.L., Carleton College, 1887, and M.L., 1890. Teacher of Latin and History in the High School, Bristol, Conn.

EMILY F. WHEELER, . . *Graduate Scholar in Romance Languages*, 1887–88.
Rockford, Ill. A.B., Northwestern University, 1875, and A.M., 1880. Professor of Romance Languages in the Northwestern University.

ELLEN C. WRIGHT, ... *Latin and English*, 1888–89.
Wilmington, O. A.B., Wilmington College, 1875. Professor of English, Wilmington College.

GERTRUDE ALLINSON, ... *Group, English and German*, 1885–87.
Beverly, N. J. Prepared by Friends' School, Providence, R. I.

ELEANOR ANNE ANDREWS, ... *Hearer in English and German*, 1889–90.
Hampstead, England. Newnham College, University of Cambridge, England, 1879–81.

ETHELWYN MORRILL ATWATER, . . *Group, Chemistry and Biology*, 1887–89.
Millville, N. J. Prepared by Friends' Central School, Philadelphia, and by private study.

* Mrs. Howard Simmons Paine, 1890.

SOPHIA MEAD ATWATER, ... *Group*, ———, 1886–88.
Millville, N. J. Prepared by private study.

EMMA DOLL BAILEY, ... *Group, Greek and Latin*, 1890–92.
Harrisburg, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

ANTOINETTE LOUISE BANCROFT,* *German and French*, 1888–89.
Waterbury, Conn. Special Student, Smith College, 1883–86.

ELIZABETH GRAEME BARBOUR, ... *Group, Latin and English*, 1888–89.
Richmond, Ky. Central University, Richmond, Ky., 1880–88. Principal of Private School, Richmond, Ky.

EMMA JOSEPHINE BATTERSBY, *Group, History and Political Science*, 1886–89.
Bryn Mawr, Pa. Prepared by Wellesley Preparatory School, Philadelphia.

LILLIE BIRCH, ... *Group, Greek and Latin*, 1887–92.
Philadelphia, Pa. Prepared by private study.

EDNA ALWILDA BOWMAN, ... *Group*, ———, 1891–92.
San José, Cal. University of the Pacific, 1885–89. Prepared by Miss Mary E. Stevens' School, Germantown, Pa., and by private study.

NELLIE BRIGGS, ... *Special Student in Latin and German*, 1890–91.
Grinnell, Io. Iowa College, 1882–87.

JOSEPHINE G. CAREY,† *Biology*, 1885–86.
Baltimore, Md. Prepared by Miss Reinhardt's School, Baltimore, Md.

LUCY EDITH CHASE, . . *Special Student in Latin and Mathematics*, 1888–89.
Brooklyn, N. Y. Prepared by Packer Collegiate Institute, Brooklyn, N. Y. Teacher of Mathematics, Packer Collegiate Institute, Brooklyn, N. Y.

SUE SHIRLEY CHENAULT, ... *Group*, ———, 1890–91.
Louisville, Ky. Wellesley College, 1886–87.

CORA MOTT CHILD, ... *Group, Greek and Latin*, 1887–88.
Chateaugay, N. Y. Classical Course, University of Vermont, 1885–87.

ANNA VERPLANCK CLAPP, ... *Special Student in Latin*, 1891–92.
Albany, N. Y. Prepared by Albany High School.

ELIZABETH M. CLARK, ... *Group, English and German*, 1891–92.
New York City. Wells College, 1889–90; University of Zürich, 1892–93.

OLIVIA SUSAN CLEMENS, ... *Group*, ———, 1890–91.
Hartford, Conn. Prepared by private study.

ELISA COATES, ... *Group*, ———, 1890–91.
Philadelphia, Pa. Prepared by Miss Irwin's School, Philadelphia.

ELIZABETH COOKE, ... *Biology*, 1890–91.
Cedar Rapids, Io. Coe College, 1884–88; University of Michigan, 1888–90; Student-Assistant in the Biological Laboratory, Bryn Mawr College, 1890–91.

MARY V. CRAWFORD, . . . *Group, History and Political Science*, 1891–92.
Bryn Mawr, Pa. Prepared by Mr. and Mrs. L. M. Johnson's School, Philadelphia, and by Miss Florence Baldwin's School, Bryn Mawr, Pa.

LILIAN DIXON, ... *Special Student in History and Physics*, 1888–89.
Devon, Pa. Special Student, Wellesley College, 1886–88.

ANABEL DOUGLAS, ... *Hearer in English and History*, 1889–90.
Rochester, N. Y. Prepared by Geneseo Normal School, N. Y. Newnham College, University of Cambridge, England, 1890–93.

* Mrs. Wilson H. Pierce, 1889.
† Mrs. Henry M. Thomas, 1889.

MARGARET DUDLEY, ... *Group, German and French*, 1889–92.
Topeka, Kan. Washburn College, Topeka, Kansas, 1887–89.

HELEN ERBEN, ... *Hearer in English and German*, 1887–89.
Radnor, Pa. Prepared by private study.

LYDIA SOPHIA FERGUSON, ... *Hearer in Greek and Latin*, 1888–89.
Belfast, Me. Prepared by E. R. Humphreys, LL.D., Boston, Mass., and by private study.

SARA GWENDOLEN FOULKE, ... *Hearer in Biology*, 1888–89.
Philadelphia, Pa. Prepared by Mr. and Mrs. L. M. Johnson's School, Philadelphia.

FRANCES BIDDLE GARRETT, . . . *Group, Chemistry and Biology*, 1885–87.
Logan P. O., Philadelphia, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

MARY RHOADS GARRETT, ... *Group*, ———, 1885–87, 1889–90.
Rosemont, Pa. Prepared by Miss Rachel Ashbridge's School, Philadelphia.

MARY HARRIS, ... *Group, Mathematics and Physics*, 1890–92.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

ELIZABETH CARI HENSCH, ... *Group*, ———, 1890–92.
Carlisle, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

MARY ELOISE HOWARD, ... *Group, Latin and Mathematics*, 1889–91.
Norfolk, Va. Prepared by The Leache-Wood School, Norfolk, Va.

EMILY CUMMING HOWE, ... *Group, Greek and German*, 1887–89.
Princeton, N. J. Prepared by Mr. J. R. Bishop, Princeton, N. J.

ANNA HARRIS HOY, ... *Group, History and Political Science*, 1885–87.
Bellefonte, Pa. Prepared by Bellefonte Academy.

MARY E. HOYT, ... *Group, Latin and English*, 1887–90 ; 1891–92.
Rome, Ga. Prepared by Shorter College, Rome, Georgia, and by private study.

NELLIE MAY HULBERT, ... *Group*, ———, 1890–91.
Elyria, O. Oberlin College, 1887–90.

JOSEPHINE JACKSON, ... *Group, Latin and German*, 1889–91.
Richmond, Va. Prepared by St. Timothy's School, Catonsville, Md. Teacher of Latin and English in Wilford School, Baltimore, Md.

ELIZABETH BRINTON JANNEY, ... *Hearer in Greek and Latin*, 1889–90.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by J. W. Fairies, D.D., Philadelphia.

HATTIE ELIZABETH JONES, ... *Group, Greek and English*, 1888–90.
Amesbury, Mass. Prepared by Oak Grove Seminary, Vassalboro, Me., and by Miss Case and Miss Hallowell's School, Philadelphia.

DORA KEEN, ... *Group, History and Political Science*, 1888–92.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

KARIE K. KERSHAW, . *Group, Greek and Latin*, 1886–87, 1888–89, 1891–92.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

CAROLYN KNOWLAND, ... *Hearer in Biology*, 1891–92.
Logan's Ferry, Pa. Woman's Medical College, Baltimore, Md., 1890–91.

CAMILLA LEACH, ... *Hearer in English*, 1889–90.
San Francisco, Cal. Prepared by private study. Mistress Robles Hall, Leland Stanford, Jr. University.

MARY HUNTER LINN, ... *Group, Latin, Italian and Spanish*, 1887–89.
Bellefonte, Pa. Prepared by Bellefonte Academy.

ANNIE LAURIE LOGAN,* *Group, Greek and Latin*, 1889–90.
St. Louis, Mo. Prepared by private study. Newnham College, University of Cambridge, England, 1890–91.

KATHARINE LÜRMAN, ... *Group*, ———, 1891–92.
Catonsville, Md. Prepared by St. Timothy's School, Catonsville, Md.

GERTRUDE MASON LYNCH, . *Group, History and Political Science*, 1887–90, 1891–92.
Washington, D. C. Prepared by Girls' Classical School, Indianapolis, Ind.

BELLA MABURY, ... *Group*, ———, 1890–91.
San José, Cal. University of the Pacific, 1884–89.

KATHLEEN R. MACFARLANE, . *Hearer in Mathematics and Physics*, 1889–90.
Rosemont, Pa. Prepared by private study.

MARY LOUISE MACMILLAN, ... *Group*, ———, 1890–91.
Cincinnati, O. Wells College, 1888–90.

MARY ELIZABETH MILES, ... *Group, Greek and Latin*, 1888–89.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

LILLIAN VIRGINIA MOSER, ... *Group, German and French*, 1888–92.
Syracuse, N. Y. Prepared by Syracuse High School, and by private study.

ELISE LUCY OGDEN, ... *Group, Chemistry and Biology*, 1891–92.
Knoxville, Tenn. Prepared by Miss Ogden, and by Girls' High School, Louisville, Ky.

AGNES LOUISE ORBISON, ... *Group, Physics and Biology*, 1886–88.
Bellefonte, Pa. Prepared by Bellefonte Academy. Missionary in Laharapur, India.

GRACE PARRISH, ... *Group*, ———, 1890–91.
Radnor, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia, and by Miss Florence Baldwin's School, Bryn Mawr, Pa. Students' Art League, New York City, 1891–93.

KATE O. PETERSON, ... *Group, Latin and* ———, 1888–89.
Brooklyn, N. Y. Prepared by Packer Collegiate Institute, Brooklyn, N. Y. A.B., Vassar College, 1890. Teacher in Packer Collegiate Institute, Brooklyn, N. Y.

ADELINE MAYO RICHARDS, ... *Group*, ———, 1890–91.
Elizabeth, N. J. Prepared by Miss Randolph's School, Baltimore, Md., and by Mr. Young, Elizabeth, N. J.

MARY HELEN RITCHIE, ... *Group, Greek and Latin*, 1891–92.
Falls of Schuylkill, Pa. Prepared by Miss Irwin's School, Philadelphia.

MILDRED M. ROELKER, . . *Group, History and Political Science*, 1890–92.
Washington, D. C. Prepared by High School, Washington, D. C.

HELEN KUNKLE ROSS, ... *Group, Latin and* ———, 1890–92.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

THEODOSIA ROSALIE RUPLI, ... *Group, Greek and Latin*, 1890–91.
Washington, D. C. Prepared by High School, Washington, D. C.

FLORENCE RUSHMORE,† *Group*, ———, 1885–86.
Plainfield, N. J. Prepared by Friends' School, Providence, R. I.

MARY JOHNSON SACKETT, ... *Group, Chemistry and Biology*, 1888–91.
Brooklyn, N. Y. Prepared by Adelphi Academy, Brooklyn, N. Y., and by private study.

HARRIET FELL SEAL, ... *Hearer in Greek and French*, 1889–91.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by private study. Teacher of French in Ogontz School, Ogontz, Pa.

* Mrs. Oliver Farrar Emerson, 1891.
† Mrs. William T. Hussey, 1892.

ANNA PEIRCE SHOEMAKER,* . . . *Group, Chemistry and Biology*, 1887–89.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia. University of Pennsylvania, 1889–91.

MARGARET ARMSTRONG STEEL, *Group, History and Political Science*, 1886–89.
Port Deposit, Md. Prepared by private study.

ESTHER CLARKSON MAYER STEELE, . . *Group, Greek and French*, 1891–92.
Philadelphia, Pa. Prepared by Miss Cooper's School, Philadelphia.

ELIZA PULLAN STEPHENS, ... *Group, Latin and French*, 1888–90.
Trenton, N. J. Prepared by Friends' Central School, Philadelphia, and by private study.

LOUISA BRIER STEPHENS, ... *Group*, ———, 1889–90.
Cedar Rapids, Io. Prepared by Mr. George J. Brown and Mr. Alonzo Brown, Philadelphia.

MARY STEPHENS *Group, Chemistry and Biology*, 1887–90.
Cedar Rapids, Io. Prepared by Coe Preparatory School and College, Cedar Rapids, Iowa.

ELEANOR JANE STEVENSON, *Special Student in German and History*, 1886–87.
Pittsburgh, Pa. Graduate of Pennsylvania Female College, 1886.

ANNA VAUGHAN SWIFT, ... *English and Chemistry*, 1887–89.
Wilmington, Del. Prepared by Miss E. D. Fraser's School, Wilmington, Del., and by Mr. W. A. R. Reynolds, Wilmington, Del.

MARION SATTERTHWAITE TAYLOR, . . *Group, History and Political Science*, 1890–92.
Sewickley, Pa. Prepared by Westtown Boarding School, and by private study.

MARY GRACE THOMAS,† . . *Group, History and Political Science*, 1885–87.
Baltimore, Md. Prepared by Mr. Christie, Graduate Student, Johns Hopkins University.

SUSAN EVERETT THROOP, ... *Group, Latin and English*, 1890–91.
Worcester, Mass. Prepared by Mrs. Throop's School, Worcester, Mass. Harvard Annex, 1891–92.

UMÉ TSUDA, ... *Special Student in Biology*, 1889–92.
Tokio, Japan. Teacher in Peeresses' School, Tokio, Japan.

EMMA PHILLIPS VAN NORDEN, ... *Group, Greek and Latin*, 1889–90.
New York City. Prepared by The Brearley School, New York City, and by private study.

ANNIE DE BENNEVILLE WAGNER, ... *Group*, ———, 1888–90.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

MARGARET COOPER WHITALL,‡ . . *Group, Chemistry and Biology*, 1885–88.
Germantown, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

ELLEN A. WINSLOW, ... *Group*, ———, 1887–89.
Saccarappa, Me. Prepared by Friends' School, Providence, R. I. First Assistant in Westbrook High School, Westbrook, Me.

Students that have taken their Degree at Bryn Mawr College.

ALICE HOPKINS ALBRO, ... *Group, Chemistry and Biology.*
Fredonia, N. Y. Prepared by Fredonia State Normal School, N. Y. A.B., 1890. Teacher of Science, High School, Dunkirk, N. Y., 1890–92. Teacher of Chemistry and Biology in the Packer Collegiate Institute, Brooklyn, N. Y.

* Mrs. Alfred J. Ferris, 1891.

† Mrs. Thomas K. Worthington, 1888.

‡ Deceased, January, 1891.

HELEN CULBERTSON ANNAN, ... *Group, History and Political Science.*
New York City. Prepared by Mrs. Comegys and Miss Bell's School, Chestnut Hill, Pa. A.B., 1891.

ALICE ELIZA ANTHONY, ... *Group, History and Political Science.*
South Manchester, Conn. Prepared by Friends' School, Providence, R. I. A.B., 1889.

EMILY FRANCES ANTHONY,* *Group, History and Political Science.*
South Manchester, Conn. Prepared by Friends' School, Providence, R. I. A.B., 1889.

EMILY GREENE BALCH, ... *Group, Greek and Latin.*
Jamaica Plain, Mass. Prepared by Miss Ireland's School, Boston, Mass. A.B., 1889. Holder of the Bryn Mawr European Fellowship, 1889–90; Collége de France and the Sorbonne, 1890–91.

HELEN BARTLETT, ... *Group, English and German.*
Peoria, Ill. Newnham College, University of Cambridge, England, 1889; studied in Berlin, 1882–84, and in 1890; A.B., 1892; Graduate Student in English, Bryn Mawr College.

CATHERINE E. BEAN,† *Group, English and German.*
San José, Cal. Classical Course, University of the Pacific, San José, 1884–85. A.B., 1889. Teacher of English in the Academic Department of the University of the Pacific, San José, 1889–90.

MARIA VOORHEES BEDINGER, ... *Group, Mathematics and Physics.*
Anchorage, Ky. Prepared by Bellewood Seminary, Anchorage, Ky. A.B., 1891. Teacher in Bellewood Seminary, 1891–92; Teacher of Science in Mrs. E. L. Head's School, Germantown, Pa.

ALICE BELIN, ... *Group, Latin and German.*
Scranton, Pa. Prepared by Miss Kate Hand, Scranton, Pa.; A.B., 1892.

ELIZABETH MILLER BLANCHARD, ... *Group, Greek and Mathematics.*
Bellefonte, Pa. Prepared by Bellefonte Academy. A.B., 1889. Fellow in Mathematics, Bryn Mawr College, 1889–90. Teacher of Mathematics in the Bryn Mawr School, Baltimore, Md., 1891–92; Mistress, Mrs. Humphrey's Cottage, Bryn Mawr College.

MARY MILES BLANCHARD, ... *Group, Chemistry and Biology.*
Bellefonte, Pa. Prepared by Bellefonte Academy. A.B., 1889.

EMILY LOUISA BULL, ... *Group, Greek and Latin.*
Oneonta, N. Y. Prepared by Oneonta Union School. A.B., 1891. Graduate Student in Biology, Bryn Mawr College, 1891–92; Teacher of Science in Miss Mary E. Stevens' School, Germantown, Pa.

ESTHER F. BYRNES, ... *Group, Chemistry and Biology.*
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by private study. A.B., 1891. Demonstrator in the Biological Laboratory, Vassar College.

ELIZABETH MAXWELL CARROLL, ... *Group, Greek and Latin.*
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.; A.B., 1892; Teacher of Classics in Mrs. Harrison's School, Baltimore, Md.

KATE HOLLADAY CLAGHORN, ... *Group, Greek and Latin.*
Brooklyn, N. Y. Prepared by Mr. Caskie Harrison, Brooklyn, N. Y. Passed examination covering the Freshman year in Columbia College, 1888–89. A.B., 1892; Graduate Student in Sociology, Bryn Mawr College.

MABEL P. CLARK, ... *Group, Greek and English.*
New York City. Prepared by Miss Gibbons' School, New York City. A.B., 1889. Fellow in English, Bryn Mawr College, 1889–90; A.M., Bryn Mawr College, 1890. Reader in English, Bryn Mawr College, and Graduate Student in English and French, Bryn Mawr College.

HELEN THEODORA CLEMENTS,‡ . . . *Group, History and Political Science.*
Philadelphia, Pa. Prepared by Ogontz School, Pa.; A.B., 1892.

* Mrs. Frederick Robbins, 1891.

† Mrs. Isaac M. Cox, 1891.

‡ Mrs. Edward Cameron Kirk, 1892.

JULIA COPE *Group, Chemistry and Biology.*

Philadelphia, Pa. Prepared by Miss Burnham's School, Northampton, Mass. A.B., 1889. Secretary of Bryn Mawr College.

HELEN CECILIA COALE,* *Group, Chemistry and Biology.*

Baltimore, Md. Prepared by Miss Pindell's School, Baltimore, Md. A.B., 1889.

HELENA STUART DUDLEY, ... *Group, Chemistry and Biology.*

Denver, Col. Massachusetts Institute of Technology, 1884–85. A.B., 1889. Teacher of Chemistry in the Packer Collegiate Institute, Brooklyn, N. Y., 1889–92; Head worker College Settlement, St. Mary's St., Philadelphia, 1892–93.

LOUISE R. ELDER, ... *Group, Greek and Latin.*

Philadelphia, Pa. Prepared by Mrs. L. M. B. Mitchell's School, Philadelphia. A.B., 1889.

ANNIE CROSBY EMERY, ... *Group, Greek and Latin.*

Ellsworth, Me. Prepared by Ellsworth High School, and by one year at school in Dresden; A.B., 1892. Holder of the Bryn Mawr European Fellowship for 1892–93; Graduate Student in Greek and Latin, Bryn Mawr College.

SUSAN BRALEY FRANKLIN, ... *Group, Greek and Latin.*

Newport, R. I. Prepared by Rogers' High School, Newport, R. I. A.B., 1889. Fellow in Greek, Bryn Mawr College, 1889–90; and Fellow by Courtesy in Greek, 1891–93. Holder of the American Fellowship of the Association of Collegiate Alumnæ, 1892–93.

ALICE ELEANORA GARRETSON, ... *Group, Greek and Latin.*

Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1890.

LEAH GOFF, ... *Group, Chemistry and Biology.*

Bryn Mawr, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1889. Assistant-Demonstrator in the Biological Laboratory, Bryn Mawr College.

ALICE BACHE GOULD, ... *Group, Mathematics and Physics.*

Boston, Mass. Prepared by Miss Ireland's School, Boston, Mass. A.B., 1889. Massachusetts Institute of Technology, 1889–90; Newnham College, University of Cambridge, England, 1890–93.

EMELINE GOWEN, ... *Group, Greek and Latin.*

Mt. Airy, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1890.

JANE BOWNE HAINES, ... *Group, History and Political Science.*

Cheltenham, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa., and by Miss Creeth, Germantown, Pa. A.B., 1891. Graduate Student in History and Political Science, Bryn Mawr College, 1891–92. Fellow in History, Bryn Mawr College, 1892–93.

ELIZABETH HARRIS, ... *Group, Greek and Latin.*

Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1890. Fellow in Greek, Bryn Mawr College, 1890–91. Teacher of Greek and Latin in the Dutch Reform Collegiate Grammar School, New York City, 1891–92; Teacher of Greek and Latin in Miss Florence Baldwin's School, Bryn Mawr, Pa.

HARRIET FRAZIER HEAD, ... *Group, Latin and French.*

Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1891. Teacher of Latin in Mrs. E. L. Head's School, Germantown, Pa.

MABEL HUTCHINSON,† *Group, Greek and Latin.*

Des Moines, Io. Classical Course, Penn College, Iowa, 1884–85. A.B., 1889.

MARGARET D. KELLUM, ... *Group, Greek and Latin.*

Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.; A.B., 1892.

ABBY KIRK, ... *Group, Greek and Latin.*

Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.; A.B., 1892; Reader in English, Bryn Mawr College.

* Mrs. Henry Crewe, 1890.

† Mrs. Henry Douglas, Jr., 1891.

CAROLINE LAWRENCE, ... *Group, History and Political Science.*
Saratoga Springs, N.Y. Art Student, Smith College, 1883–84; Special Student, 1885. A.B., 1889.

MARION WILHELMINA MACINTOSH, ... *Group, Greek and Latin.*
Philadelphia, Pa. Prepared by Miss Gibson's School, Philadelphia; A.B., 1890; Graduate Scholar in Greek, Bryn Mawr College, 1890–91.

MARY TAYLOR MASON, ... *Group, History and Political Science.*
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.; A.B., 1892; Teacher of History in Mrs. E. L. Head's School, Germantown, Pa.

MARY MCMURTRIE, ... *Group, History and Political Science.*
Philadelphia, Pa. Prepared by private study. A.B., 1889.

ETHEL PARRISH, ... *Group, History and Political Science.*
Radnor, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia. A.B., 1891.

MARGARET M. PATTERSON, ... *Group, Greek and Latin.*
Denver, Col. Prepared by Pension Lacorne, Paris, France, and by Denver High School. A.B., 1890.

MARY GRAFTON PATTERSON, ... *Group, German and French.*
Denver, Col. Prepared by Pension Lacorne, Paris, France, and by private study. A.B., 1888.

CAROLINE ELY PAXSON, ... *Group, German and French.*
New Hope, Pa. Prepared by Miss Lily White's School, Germantown, Pa. A.B., 1890.

GRACE PINNEY, ... *Group, German and French.*
New York City. Prepared by private study; A.B., 1892.

ANNA POWERS, ... *Group, Greek and Latin.*
New York City. Prepared by Friends' Central School, Philadelphia. A.B., 1890. Teacher of Greek and Latin in Mrs. E. L. Head's School, Germantown, Pa.

HARRIET RANDOLPH, ... *Group, Chemistry and Biology.*
Philadelphia, Pa. Prepared by private study. A.B., 1889. Fellow in Biology, Bryn Mawr College, 1889–90; Ph.D., University of Zürich, 1892; Demonstrator in Biological Laboratory, Bryn Mawr College.

ANNA ELY RHOADS, ... *Group, Latin and Greek.*
Bryn Mawr, Pa. Prepared by Friends' School, Germantown, Pa., and by private study. A.B., 1889. Graduate Student in Greek, Bryn Mawr College, 1889–90; University of Leipsic, 1890–91.

ELLA RIEGEL, ... *Group, History and Political Science.*
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia. A.B., 1889.

HELEN J. ROBINS, ... *Group, Latin and English.*
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia; A.B., 1892. Secretary to the Dean, Bryn Mawr College.

EDITH F. SAMPSON, ... *Group, Chemistry and Biology.*
Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa. A.B., 1890. Graduate Student in Biology, Bryn Mawr College, 1891–93.

LILIAN VAUGHAN SAMPSON, ... *Group, Mathematics and Physics.*
Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa. A.B., 1891. Holder of the Bryn Mawr European Fellowship, 1891–92. Graduate Student in Biology, Bryn Mawr College, 1891–92. University of Zürich, 1892–93.

JANE SCOFIELD, ... *Group, Greek and Latin.*
Sandy Spring, Md. Graduate Mt. Holyoke College, South Hadley, Mass., 1886. A.B., 1891. Teacher of English and History in the San Antonio High School, San Antonio, Texas.

KATHARINE MORRIS SHIPLEY, ... *Group, Latin and English.*
Cincinnati, O. Prepared by Bartholomew English and Classical School, Cincinnati, O. A.B., 1890. Holder of the Bryn Mawr European Fellowship, 1890–91; University of Leipsic, 1890–91; Collége de France and the Sorbonne, 1891–92.

ALYS WHITALL PEARSALL SMITH, ... *Group, German and French.*
Philadelphia, Pa. Prepared by Miss Lily White's School, Germantown, Pa. A.B., 1890.

EMILY JAMES SMITH, ... *Group, Greek and Mathematics.*
Canandaigua, N. Y. Prepared by Mr. J. H. Lee and Mr. D. L. Satterthwaite, Canandaigua, N. Y. A.B., 1889. Girton College, University of Cambridge, England, 1889–90. Teacher of Greek in the Packer Collegiate Institute, Brooklyn, N. Y.

HARRIET STEVENSON, ... *Group, Mathematics and Physics.*
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind. Scientific Course, Wellesley College, 1886–87; A.B., 1892; Teacher of Mathematics and Physics in Miss Gibbons' School, New York City.

ANNE TAYLOR,* *Group, English and French.*
College Hill, Cincinnati, O. Prepared by Belmont College, College Hill, O. A.B., 1889.

MARY LEWIS TAYLOR, ... *Group, Mathematics and Physics.*
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.; A.B., 1892.

MARGARET CHESTON THOMAS,† *Group, German and French.*
Baltimore, Md. Prepared by Miss Pindell's School, Baltimore, Md. A.B., 1889.

MARTHA GIBBONS THOMAS, ... *Group, Chemistry and Biology.*
Whitford, Pa. Prepared by private study. A.B., 1890.

LUELLA H. THORNE, ... *Group, Greek and Latin.*
Skaneateles, N. Y. Prepared by Skaneateles Union School and Academy. A.B., 1890. Teacher in Jamaica Plain School, Long Island, 1890–92. Teacher in Friends' School, Union Springs, N. Y.

EMILY RACHEL VAIL, ... *Group, Greek and Latin.*
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1891.

MATHILDE WEIL, ... *Group, English and French.*
Philadelphia, Pa. Prepared by Mr. and Mrs. L. M. Johnson's School, Philadelphia. A.B., 1892; Teacher of English in Mrs. L. M. B. Mitchell's School, Philadelphia.

EDITH WETHERILL, ... *Group, History and Political Science.*
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia; A.B., 1892.

SOPHIA WEYGANDT, ... *Group, Greek and Latin.*
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1889.

KATHERINE TABER WILLETTS,‡ *Group, Greek and Latin.*
New York City. Prepared by Miss Anna C. Brackett's School and by Mrs. Julia J. Irvine, New York City. A.B., 1890.

ELIZABETH WARE WINSOR, ... *Group, Greek and Latin.*
Weston, Mass. Prepared by High School, Winchester, Mass.; Harvard Annex, 1889–90; A.B., 1892; Teacher of Latin and English Composition in Private School, 36 Newbury Street, Boston, Mass.

MARIAN A. WRIGHT, ... *Group, Latin and German.*
Germantown, Pa. Special Student, Smith College, 1883–84. Prepared by Miss Florence Baldwin, Bryn Mawr, Pa. A.B., 1891.

* Mrs. Frank H. Simpson, 1891.

† Mrs. Anthony Morris Carey, 1893.

‡ Mrs. Alfred A. Gardner, 1892.

Bryn Mawr College.

Introductory Statement.

Bryn Mawr College, situated at Bryn Mawr, Pennsylvania, ten miles from Philadelphia, was endowed by Dr. Joseph W. Taylor, of Burlington, New Jersey, who proposed to found an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education that are so freely offered to young men." The site of the college was purchased and the buildings were begun during the lifetime of the founder, who died in 1880. In the same year the college was incorporated by the authority of the State of Pennsylvania, and invested with power to confer degrees. A circular of information was issued by the Trustees in 1883. A President and a Dean of the Faculty were elected in the spring of 1884. During the remainder of the year 1884 plans were matured and appointments made in the Faculty; in the autumn a second circular of information was issued, and an office at which to receive applications was opened in Philadelphia. The courtesy of the presiding officers and instructors of existing universities and colleges facilitated an acquaintance with the prevalent collegiate systems; and the domestic organisation of the women's colleges, Vassar, Smith, and Wellesley, received careful consideration. To the Johns Hopkins University acknowledgment is especially due, since from it has been borrowed the system of major and minor electives in fixed combination. In the spring of 1885 the first program was issued, and the college opened for instruction in the following autumn with forty-four students.

Admission.

Three classes of persons are admitted to the lectures and classwork of the college:—graduate students, undergraduate students, and hearers.

Graduate Students.

Graduate students must have presented a diploma from some college of acknowledged standing. They may pursue the advanced

or graduate courses* offered by the college, although the instructors in the several departments may require of them certain introductory or auxiliary studies; they are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations, from the instructors. Their needs will be considered in the arrangement of new courses of lectures.

Fellows. The most distinguished place among graduate students will be held by the Fellows, who must reside in the College during the academic year. Nine Fellowships, of the value of five hundred and twenty-five dollars each, are awarded annually—one in Greek, one in Latin, one in English, one in German and Teutonic Philology, one in Romance Languages, one in Mathematics, one in History or Politics, one in Biology, and one in Chemistry. These fellowships, which do not exempt the holder from the usual charges for tuition, board and room-rent, are intended as an honor and are awarded in recognition of previous attainments. They are open to graduates of Bryn Mawr College, or of any other college of good standing. No one may compete that has not a college degree or a certificate of prolonged study under well-known instructors; and, generally speaking, the Fellowship will be given to the candidate that has studied longest or whose work affords the best promise of future success. All applications should be made as early as possible, and must be made by the 15th of March preceding the year for which the Fellowship is desired. Blank forms for application will be forwarded to the applicant. A definite answer will be given within four weeks from the last date fixed for application. The holder of a Fellowship is expected to show, by the presentation of a thesis, or in some other manner, that her studies have not been without result. All Fellows may study for the degree of Doctor of Philosophy, the Fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts. Those that continue their studies at the College after the expiration of the Fellowship, may, by vote of the Trustees, receive the rank of Fellows by Courtesy.

Undergraduate students must have fulfilled the requirements for matriculation, and may enter college at any age at which those

* For the convenience of graduate students the courses belonging to the graduate departments of the college are reprinted from this program in a separate pamphlet, which may be obtained by applying to the Secretary.

requirements have been fulfilled. The studies leading to the degree of Bachelor of Arts are stated on pages 39–43. Those students that do not wish to study for a degree are enrolled as special students; they will, nevertheless, in the event of a change of plan, be credited with such of their studies as may have coincided with the studies leading to a degree. All special students must have passed the examination for matriculation. Attention is called to the fact that the Group System enables all candidates for a degree to specialise in one or more subjects.

Undergraduate Students.

Special Students.

Hearers will be excused from passing the matriculation examination; but they will be strictly distinguished from matriculates, and will be entitled to reside in the college only when by so doing they exclude no matriculated student, and when the courses pursued by them are equivalent in number to those ordinarily pursued in each year by candidates for a degree. They must be women of at least twenty-five years of age, and must furnish proof that they have at some time pursued the studies included in the matriculation examination. They must satisfy the several instructors that they can profit by the courses that they desire to follow, and their admission to recitations, examinations, and laboratory exercises, will depend on the express consent of the instructor in charge. Hearers differ, moreover, from special students in that they are not recognised by the college, and can receive only such certificates of collegiate study as may be given them by the several instructors. They cannot receive degrees.

Hearers.

The examination for matriculation must be taken by all that wish to pursue their studies at the college, either as candidates for a degree or as special students.* The examination for matriculation will be open to those also that wish to take it as a

Examination for Matriculation.

*But candidates that present a certificate of honorable dismissal from some college or university of acknowledged standing, or candidates that have passed the Harvard University Examinations for Women held in Cambridge, New York, and Cincinnati will be admitted, whenever the examination has covered the same or equal ground in the subjects required for matriculation in the college, but not more than one calendar year and the summer recess must have elapsed between the two parts of the examination. For regulations concerning "hearers," see above.

The following subjects in the Harvard University Examinations for women are accepted as equivalents: All the "elementary studies" except one language (which may be German *or* French *or* Greek, but must not be Latin), and the "advanced studies" in the three languages chosen; Latin composition; and, if Greek be taken, Greek composition. The "elementary studies" in Latin, Greek, French or German will not be accepted as a substitute for any part of the examination in these subjects, unless supplemented by the "advanced studies."

In no other cases will certificates be accepted.

test of proficiency in elementary studies, but have no intention of entering the college; and certificates will be given to those who are successful in passing the examination.

Candidates may divide the examination into two parts; if, however, more than one calendar year and the summer recess elapse between the two parts of the examination, the first part must be repeated.

Blank forms of application for admission should be obtained from the Secretary.

Examinations are held in June and September of every year at Bryn Mawr College, and in June of every year in Baltimore, Germantown and Indianapolis; in June but not in September they may also be held by request in Boston, Cincinnati, California, and in London *or* Paris, and will be conducted by the Honorary Corresponding Secretaries, who will also answer enquiries in regard to the examinations or the College. Examinations may also be arranged for in other places. In June, 1892, the Bryn Mawr examinations were held in Germantown, Wilmington, Baltimore, Boston, Cincinnati, San Francisco, Indianapolis, and Chicago.

Tabular Statement.—All candidates for matriculation *must* be examined in the following three groups:

I.	II.	III.
Mathematics { Algebra, 2. / Plane Geometry, 1.	Latin Grammar & Composition, 1. Cæsar and Cicero, 1. Virgil and sight reading, 1.	History, 1. English, 1. Science, 1.

All candidates for matriculation *must* be examined in one of the following groups:

IV.		IV.		IV.
Greek { Grammar and Composition, 1. / Xenophon, . . 1. / Iliad and sight reading, . . 1.	*or*	*Greek* { Grammar and Composition, 1. / Xenophon, . . 1. / Iliad and sight reading, . . 1.	*or*	*French* { Grammar, / Prose, / Poetry, } 3. *and* *German* { Grammar, / Prose, / Poetry, } 3.
and *French* { Grammar, / Prose, / Poetry, } 3.		*and* *German* { Grammar, / Prose, / Poetry, } 3.		

The candidate *may* be examined in the following subjects, and if not examined, must pursue them in college:

Advanced Mathematics { Solid Geometry, / Plane Trigonometry.

A fourth language, { **Greek* (as above) / *or* / *French* (as above) / *or* / *German* (as above)

*Students that have omitted Greek in the examination for matriculation may substitute for the beginners' course in Greek the minor course in Latin, see page 54. And this minor course in Latin may also be offered for examination by students that wish to enter with advanced standing.

The subjects in which the candidate for matriculation *must* be examined are divided, for convenience of marking, into fifteen sections. It will be observed that each language other than English is counted as three sections. Groups I., II., and III. contain three sections each; group IV. contains six sections. The figures attached to the subjects show the number of sections contained in each subject; where a bracket precedes the figure, the subjects enclosed by the bracket cannot be separated in the examination. Should the candidates pass in fewer than three sections in the first division of the examination, the entire examination must be repeated; but the three sections need not, except where this is indicated by the brackets, belong to one and the same group. Solid Geometry and Trigonometry or the fourth language cannot be substituted for any part of the fifteen sections.

I. **Mathematics.**—(1) and (2) *Algebra.** (3) *Plane Geometry.* *Mathematics.*

The examination in Algebra will comprise Elementary Operations, Quadratic Equations, Problems, Ratio, Proportion, Variation, Arithmetical and Geometrical Progressions.

While there will be no formal examination in Arithmetic, an adequate knowledge of the subject will be required throughout the mathematical examination; in *all* the papers there will be some numerical problems, and the correct solution of a fair number of these will be regarded as essential.

All candidates that do not, in addition to the above, present *Solid Geometry* and *Trigonometry* (including the use and theory of logarithms and the solution of triangles), must pursue these branches in the college and pass an examination in them before receiving a degree. It is especially recommended that those intending to elect mathematical courses should pass the entire matriculation examination in mathematics. These candidates are advised to confine themselves to Algebra; Plane Geometry of the straight line and the circle; Solid Geometry and Trigonometry. More benefit will be derived from a thorough acquaintance with the pure geometrical methods, than from a little knowledge of Analytical Geometry.

Students whose matriculation examination has included either Solid Geometry, or Trigonometry, or both, will be credited with the time which others must subsequently spend upon these studies.

C. Smith's Elementary Algebra, and Lock's Trigonometry for Beginners (Macmillan) are recommended.

*In no circumstances may the Algebra paper be divided by a candidate. Even when the College report indicates that the failure is to count as a condition in *one* section only, the whole paper must be taken in order to work off this condition.

II. **Latin.**—(1) *Grammar and Composition.* (2) *Cæsar*, Gallic War, Books I.–IV. (or, if desired, *Ovid*, Metamorphoses, two thousand lines). *Cicero*, seven orations, (*pro Archia poeta*, *de imperio Cn. Pompei*, *pro Marcello*, and the four orations *in Catilinam.*) (3) *Virgil*, Æneid, Books I.–VI. (or the Eclogues and five books of the Æneid). *Latin.*

There will be questions testing the candidate's practical knowledge of grammar, including prosody, and translation of English into Latin.

The candidate will be expected to translate at sight easy passages, with due allowance for unusual words.

Equivalents will be accepted to some extent, but all candidates must have read (*a*) Cicero, at least four orations, (*b*) Virgil, at least three books of the Æneid.

The so-called Roman method of pronunciation, as explained in Allen and Greenough's Latin Grammar, is recommended.

As many schools are introducing the "natural method" as a substitute for thorough grammatical training, attention is called to the fact that special stress will be laid on an accurate and ready knowledge of grammatical forms. A knowledge of paradigms and parts of irregular verbs will be insisted upon.

Candidates are advised, whenever possible, to try the whole Latin examination at one time, although the three sections may be taken separately, and in any order the candidate may prefer.

History. *III.* **History.**—(1) The outlines of the History of England and the United States; *or* the outlines of the History of Greece and Rome.

Johnston's History of the United States, and The United States: its History and Constitution; Ransome's History of England, *or* Gardiner's English History for Schools; Oman's History of Greece (Longman's, N. Y.); Leighton's History of Rome, *or* Allen's History of the Roman People are recommended.

English. **English.**—(1) The candidate will be required to write a short English composition, correct in spelling, grammar, punctuation, and general arrangement, and to correct specimens of bad English.

In 1893 the subject will be taken from one or more of the following works: *Shakespeare*, Julius Cæsar, and Merchant of Venice; *Chaucer*, The Clerk's Tale; *Ruskin*, Sesame and Lilies; the Sir Roger de Coverley Papers in *The Spectator*.

In 1894 candidates must be familiar with *Chaucer*, The Knight's Tale; *Shakespeare*, Midsummer Night's Dream, and Twelfth Night; the Sir Roger de Coverley Papers in the *Spectator; Macaulay*, Essay on Addison, and Essay on Johnson.

The books recommended (for the years 1893 and 1894), by the Commission of Colleges of New England, will be accepted as equivalents.

Candidates are required to be familiar with the subject-matter of these works. Much stress will be laid on an intelligent knowledge of the elements of English composition and grammar, and no candidate can be successful in passing the examination without familarity with the essentials of punctuation and arrangement. Abbott's *How to Write Clearly* is recommended as an aid to the knowledge of correct arrangement.

Science. **Science.**—(1) The elements of one of the following sciences :—Physics, *or* Chemistry, *or* Botany, *or* Physiology, *or* Physical Geography.

Gage's Physics, Remsen's Introduction to the Study of Chemistry (Briefer Course), Bessey's Essentials of Botany, Martin's Human Body (Briefer Course), and Russell Hinman's Physical Geography are recommended. Candidates are advised, whenever possible, to offer Physics or Chemistry, as these studies form a better basis for further scientific work.

IV. Two of the following languages :

Greek. **Greek.**—(1) *Grammar and Composition.* (2) *Xenophon*, Anabasis, Books I.–IV. (3) *Iliad*, Books I.–III.

White's First Lessons in Greek and Jones' Exercises in Greek Prose, or equivalents, are recommended.

There will be questions on grammar suggested by the text, and translation at sight of easy passages from Xenophon and the Iliad, with due allowance for unusual words.

Equivalents will be accepted to some extent, but all candidates must have read (*a*) Homer, at least two books of the Iliad, (*b*) Xenophon, at least two books of the Anabasis or Memorabilia.

French. **French.**—(3) The examination in French will have three divisions, one to test the candidate's knowledge of pronunciation and ordinary grammatical forms, the other two her power to read at sight ordinary French prose and verse.

For the examination in reading no texts are assigned, the examination being intended to test the candidate's ability to read any ordinary French whatsoever. Candidates preparing for these examinations are advised to acquire as large a vocabulary as possible. They

are further advised in their study of verbs to concentrate their attention on the regular verbs, the auxiliaries *être, avoir,* and such important irregular verbs as *aller, devoir, dire, faire, mettre, prendre, pouvoir, vouloir, tenir, venir, voir, écrire, lire, croire, boire,* and the typical verbs *conduire, craindre, paraître, partir,* and to acquire a fair knowledge of the use of the various past tenses and of the rules of the subjunctive.

The examination in French cannot be divided.

German. German.—(3) The examination in German will be precisely similar to that in French, and will test the candidate's pronunciation, knowledge of ordinary grammatical forms, and ability to read ordinary German at sight.

The examination in German cannot be divided.

The candidate may omit one of the three languages, Greek, French, or German, selecting Greek and French, *or* Greek and German, *or* French and German.

Remarks on Examination for Matriculation.

All subjects potentially included in the examination for admission are regarded by the college as preparatory and non-collegiate. The college course of instruction in mathematics, for example, does not include but presupposes trigonometry ; the courses in French and German presuppose a reading knowledge of these languages.

It is therefore to the interest of every candidate to offer, at entrance, advanced mathematics, and if possible all four languages ; remembering that even to fail in such of these examinations as are not strictly obligatory, will not affect the candidate's collegiate standing, and that to pass them successfully will leave her nearly free for elective study under the Group System and for true collegiate work. Great pains have been taken in the organisation of the collegiate courses ; and it is not desirable that the time of the students within the college should be needlessly withdrawn from these and spent upon preparatory work.

Studies Leading to the Degree of Bachelor of Arts.

No student will be graduated who does not at the time of graduation possess a reading knowledge of French and German and some acquaintance with Latin. In the last semester before graduation, an oral examination will be held to test the candidate's power of reading French and German at sight.*

The following course of study must be pursued by every candidate for the degree of Bachelor of Arts.

Required Studies.

English, five hours weekly for two years.

Science, or *Science and History,* five hours weekly for two years ; that is, any one of the major courses in Science, or any two minor courses in Science ; or any one of the minor courses in Science, together with either one of the minor courses in History or a minor course in Political Science.

Philosophy, five hours weekly for a year.

* The college provides beginners' classes, five times weekly throughout one year, for those students who in the examination for matriculation may have omitted Greek, French, or German, and classes in Solid Geometry and Trigonometry, five hours weekly for one half-year ; but attendance on these classes is not obligatory, the student being free to make good her deficiencies by private reading.

Group. *Two Major Courses*, of five hours weekly for two years each, constituting one of the following Groups: Any language with any language; Mathematics with Physics, or Mathematics with Greek or Latin; any science with any science; History with Political Science.

Free Electives. *Free Electives*, five hours weekly for a year and a half, to be chosen by the student. It should be observed that a single study may be taken as a Free Elective, without electing the group that includes it. Students whose group includes Physics, but not Mathematics, must take at least a year of Mathematics as a Free Elective.

Solid Geometry and Plane Trigonometry, five hours weekly for one half year when these subjects have not been included in the examination for matriculation.

Greek or French or German,† five hours weekly for one year when that subject has not been included in the examination for matriculation. Those students, however, who have omitted Greek may substitute for the required course in Greek the minor course in Latin.

Tabular Statement. These studies may for convenience be tabulated as follows:

Minor Courses (*Five hours weekly for One Year Each*).*

1 and 2.	3.	4.	5.	†[6.]	‡[7.]
English. *Two Courses.*	Philosophy.	Science, Physics, or Chemistry, or Biology.	Science, or History, or Politics.	French, or German, or Greek (or Minor Latin).ʔ	Solid Geometry and Trigonometry.

Two Major Courses (*Five hours weekly for Two Years Each*).

Constituting any one of the following groups:

I.	II.	III.	IV.	V.
Any language with any language.	Any science with any science.	Mathematics with Greek or Latin.	Mathematics with Physics.	History with Political Science.

Free Electives.

Five hours weekly for a year and a half in any subject or subjects the student may elect.

The "Minor Courses" in the above undergraduate table are known as the Required Studies; the "Two Major Courses" as the Group. All these studies are arranged in accordance with

* Except 7. (*One half-year.*)

† See note on page 39.

‡ See note on page 39 and page 75, under "Mathematics."

ʔ A student choosing Latin as one of the languages of her Group, and not wishing to study Greek, may substitute a year of Post Major Latin, or a year of Minor French, or Minor German for the year of Minor Latin.

the Group System, and a proper understanding of the Group System is essential to an understanding of the courses of instruction.

The Group System.

In all departments as yet organised there is a course of five hours a week for two years, called a Major Course. Whenever one year of this course is of such a nature that it can be taken separately, it is marked as a Minor Course. It is required of every candidate for a degree to take two such major courses as shall be homogeneous, or shall complete each other, and major courses which fulfil this condition are designated as Groups. It is meant that the student, under this system, should lay the foundations of a specialist's knowledge; and the Required Studies, namely, English, philosophy, science and history, are intended in part to supplement the Group, and in part to ensure a more liberal training than could be achieved did every student combine elective studies at pleasure. The two years' required course in English serves as a general introduction to the study of language and of comparative literature. The required two years in science, or in science and history, permit the student of chemistry and biology to pursue both branches of the biological course, or to take a major course in physics; and they ensure to the student of history and of language, for one year at least, the same kind of instruction and discipline as is received by the scientific student. The one year's course in philosophy is a general introduction into the study of the laws, conditions, and history of thought.

The following may serve as examples of some of the many combinations of studies that may be made by those candidates for a degree, who wish to specialise as far as possible in particular departments. Solid Geometry and Trigonometry and Elementary French *or* Elementary German *or* Elementary Greek *or* Minor Latin are bracketed as being properly included in the examination for matriculation.

Classics. *As Required Studies* [Solid Geometry and Trigonometry, Elementary French or Elementary German or Elementary Greek], English, Philosophy, Science (Physics, Chemistry, or Biology), Ancient History (*or* Modern History *or* Minor Politics). *As a Group*, Greek and Latin. *As Free Electives*, advanced Greek and Latin, five hours weekly for one year and a half.

Modern Languages (other than English). *As Required Studies*, [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, Science

(Physics, Chemistry, or Biology), Modern History (*or* Ancient History, *or* Minor Politics). *As a Group*, French and German, or French, Spanish and Italian. *As Free Electives*, Spanish and Italian, or advanced French or German, five hours weekly for one year and a half.

English. *As Required Studies*, [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History (*or* Ancient History, *or* Minor Politics). *As a Group*, French and English, or Greek and English. *As Free Electives*, German or Latin five hours weekly for one year and a half.

Mathematics (with Latin). *As Required Studies* [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor German, or Minor French], English, Philosophy, Physics, Ancient History (*or* Modern History, *or* Minor Politics). *As a Group*, Mathematics and Latin. *As Free Electives*, Advanced Mathematics five hours weekly for one year and a half.

Mathematics (with Physics). *As Required Studies*, [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, Chemistry, Biology. *As a Group*, Mathematics and Physics. *As Free Electives*, Advanced Mathematics, or Advanced Physics five hours weekly for one year and a half.

History. *As Required Studies* [Solid Geometry and Trigonometry, Elementary French or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, any Science, any Language (Greek, Latin, English, German, French, Italian, or Spanish). *As a Group*, History and Political Science. *As Free Electives*, Advanced History, or Advanced Political Science five hours weekly for one year and a half.

Science. *As Required Studies.* [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, Physics, Physics (second year). *As a Group*, Chemistry and Biology. *As Free Electives*, Minor Mathematics and advanced work in Biology or Chemistry five hours weekly for one half-year.

The following combinations may be adopted by those who wish to pursue a major course in History, Politics, or Science, yet do not wish to elect an historical, political, or a scientific group.

I. *As Required Studies* [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, any Science, Ancient History. *As a Group*, any Language with any Language, or Chemistry with Biology or Physics. *As Free Elective*, Modern History five hours weekly for one year and a half.

II. *As above*, only for Ancient History substitute Minor Politics, and for Modern History, Major Politics.

III. *As Required Studies* [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, Physics, Chemistry. *As a Group*, any Language with any Language. *As Free Electives*, second year in Chemistry, and one half year in Biology.

Every student is expected to consult the Dean of the Faculty in regard to the details and best arrangement of her various studies, and must register her course of study at the Dean's office before entering upon college work.

The courses leading to the degree of Bachelor of Arts may, as a rule, be taken in any order preferred by the student, provided they can be completed satisfactorily. Those students who have not as yet decided on their group may in the first year pursue required studies only, or may pursue one of the courses belonging to the group to which they most incline, with the understanding that if they should desire to change their group, that course will be counted as a Free Elective ; those students whose tastes are already fully formed, or who are uncertain how many years they shall remain at college, may enter at once on free elective studies and on the study of both subjects of their group. There are obvious advantages for the student in deferring as long as possible the choice of her free electives and her group, inasmuch as the required studies, by accustoming her to the methods of laboratory work, languages, literature and history, afford her every opportunity of ascertaining her true tastes and aptitudes.

The students are not divided into the traditional college classes, and there is no fixed date for graduation ; in order to pursue a wider course of reading in connection with single subjects, or to attend a greater variety of lectures, the ablest students may choose to defer graduation, and, on the other hand, the usual period of collegiate study may be abridged ; personal considerations only will determine the time spent in completing the studies required for a degree. Nevertheless, these requirements constitute strictly a four years' course ; that is to say, if the time given to lectures and class-work be, as is usual, fifteen hours weekly, a student passing the ordinary matriculation examination, and availing herself of the preliminary courses of the college on the subjects which that examination did not include, will in all cases require precisely four years.

The Bryn Mawr European Fellowship. The Bryn Mawr European Fellowship will be awarded annually to a member of the graduating class of Bryn Mawr College on the ground of excellence in scholarship. The holder will receive the sum of five hundred dollars, applicable to the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determinded by the holder's own preference, subject to the approval of the college.

Studies Leading to a Second Degree. Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may, at their discretion, enroll themselves as candidates for the Degrees of Doctor of Philosophy and Master of Arts. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

The Degree of Doctor of Philosophy and Master of Arts The degree of Doctor of Philosophy may be conferred upon graduates of Bryn Mawr College, and upon graduates of other colleges who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may have been recommended.

The candidate must have pursued for three years, after having received the first degree, a course of liberal (non-professional) study at some college or university approved by the Faculty, and have spent at least two of these years at Bryn Mawr College. She must have written, on some subject connected with her chief subject of study, a dissertation that bears satisfactory evidence of original research, and must pass an oral examination in the presence of the members of the Faculty on one major or chief subject, and a written or a written and an oral examination on two minor subjects. In special cases where one minor subject is substituted for the two minor or secondary subjects, the time spent on the one secondary subject must be equal to the time usually spent on the two minor subjects, and every combination of major and minor subjects for the final examination must have been submitted to the Dean, by whom, after due

consultation with the heads of the departments concerned, it will be submitted to the Faculty.

The candidate may be required to pursue certain auxiliary studies in connection with the subject that she has elected; and the degree of Doctor of Philosophy will be given to no one who cannot read French and German, or who is unacquainted with Latin. The dissertation must have been printed by the candidate before she can be admitted to the degree of Doctor of Philosophy. The degree of Doctor of Philosophy will in no case be conferred by the college as an honorary degree.

The Degree of Master of Arts

A separate degree of Master of Arts will be conferred on graduates of Bryn Mawr College. The candidate for this degree must have studied at Bryn Mawr College for at least one year after receiving the degree of Bachelor of Arts, and must have pursued either undergraduate courses not previously taken, amounting to twelve hours weekly, or graduate courses equivalent to twelve hours weekly. She may have devoted herself exclusively to a single subject, and must have taken in some one subject the equivalent of a five-hour course. If the courses taken are undergraduate courses, the student must pass the usual examinations with credit; if they are graduate, she must pass either a written examination, or an oral examination in the presence of the members of the Faculty, as may be preferred by the heads of the departments in which she has studied.

Expenses.

The charge for tuition is one hundred dollars a year, irrespective of the number of courses attended, or of the actual time of attendance. It is the same for undergraduate students, graduate students, and hearers, and is payable in advance. An additional charge of fifteen dollars a year is made for materials in every laboratory course of five hours weekly throughout the year.

A special exception will be made in favor of non-resident medical students and physicians, who will be charged for a single course in chemistry or biology fifty dollars, and for two courses one hundred dollars, the laboratory charges being the same for them as for other students. A course is held to be five hours weekly of lectures and class-work throughout the year.

Residence.

Residence in the college buildings is optional. Of the students in daily attendance at the lectures and class work of the college,

some have always lived in Philadelphia, or in the neighborhood of Bryn Mawr; others have resided in the college for five days of the week. The expense of board and residence in the college halls is two hundred and seventy-five dollars, three hundred dollars, or in special cases three hundred and twenty-five or four hundred dollars, according to the room or rooms occupied by the student. Of this sum one hundred and fifty is the charge for board, and is payable half-yearly in advance; the remainder is room rent, and is payable yearly in advance. Room rent includes all expense of service, heating and light, except open fires and laundry work.

The health of the students is under the charge of Dr. Ida E. Richardson, a physician practising in Philadelphia, who visits the college every week, and can then be consulted by all the students free of charge.

Plans of Merion Hall, Radnor Hall, Denbigh Hall, and of a new hall of residence, which will be finished, it is hoped, in the autumn of 1893, with a full account of the halls and tariff of rooms, may be obtained by application to the Secretary of the College. Each of these halls has its separate kitchen and dining hall, provides accommodations for about sixty students, and is under the charge of a resident Mistress. Since the demand for college rooms is very great, and every room unnecessarily reserved may prevent some other student from entering college, application for rooms should be made as early as possible, and before a room is assigned a deposit of fifteen dollars is required, which will be deducted from the first college bill.

The rooms are completely furnished. No lamps, towels, table napkins, sheets or supplies of any kind need be brought by the student. No part whatever need be taken by the student in the care of her own room.

There are open fire-places in nearly all the studies, but the rooms will be sufficiently heated by steam. A fixed annual charge ($18 for one dozen pieces a week) is made for washing (see the description of Merion Hall, Radnor Hall and Denbigh Hall) when students prefer to have their washing done in the college. Students that remain at the college during the winter and spring vacations will be charged seven dollars, or eight and a half dollars, weekly, according to the rooms occupied. No charge is made for sending meals to students that remain in their rooms by the advice of the physician or of the mistress of the hall.

The charge for tuition is accordingly $100 a year, payable in advance.

The charge for residence in the college halls, exclusive of board, is $125, $150, $175 (or in special cases, $200, $250) a year, payable in advance.

The charge for board is $150 a year; one half payable in advance.

The charge for board, residence and tuition is, therefore, $375, $400 or $425 (or in special cases $450, $500) a year; the additional charges are $15 for every laboratory course of five hours weekly, not more than one laboratory course being required of candidates for a degree.

The Students' Loan Fund of Bryn Mawr College was founded by the class of 1890 for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed is distributed in the form of partial aid, and as a loan. It will be applied to the assistance of those students only who have attended courses in the college for at least one year. The Fund is managed by a committee consisting of the President and Dean and three representatives of the Association of Bryn Mawr College Alumnæ. The committee reports yearly to the Board of Trustees and to the Alumnæ Association. The officers for the year 1892-93 are as follows: Chairman, Miss Mary McMurtrie; Secretary and Treasurer, Miss Mary T. Mason, School Lane, Germantown, Philadelphia. Contributions may be sent to any member of the committee.

Two Partial Scholarships of $200 each will be open to members of the Society of Friends that are unable to pay the full charge for tuition and residence. When there are more than two applicants the candidates will be selected by competitive examination; in all cases graduate students will be preferred, and in no case can the scholarship be held by any one that has not passed the matriculation examination with credit. Three scholarships, covering all expenses of tuition, board and residence, will be open to the graduates of Earlham, Penn and Guilford Colleges respectively, who, in the preceding year, have completed the course of their several colleges with most distinction.

INSTRUCTION.

Libraries.

The fact that the college is at a distance of only ten miles from Philadelphia, which may be reached by half-hourly trains in from twenty to thirty minutes, enables the student to make use of all the resources of the libraries of Philadelphia, as well as of those of the College proper.

The College Library, accordingly, will remain as far as possible a library for special study. There are at present on its shelves eleven thousand three hundred and fifty bound volumes, and the sum of three thousand dollars is expended yearly for books under the direction of the heads of the several collegiate departments. One hundred and seventy-two scientific, literary, and philological periodicals and reviews in the English, German, French, Italian and Swedish languages, are taken by the library, as follows:

Academy; Acta Mathematica; American Chemical Journal; American Journal of Archæology; American Journal of Mathematics; American Journal of Philology; American Journal of Psychology; American Journal of Science; American Naturalist; Andover Review; Anglia; Annalen der Physik und Chemie; Archiv für Anatomie und Physiologie;

Archiv für die Gesammte Physiologie; Archivio Glottologico Italiano; Arkiv für Nordisk Filologi; Athenæum; Atlantic Monthly; Babylonian and Oriental Record; Beiträge der Deutschen Sprache und Litteratur; Beiträge zur Kunde der Indogermanische Sprachen; Bibliotheca Mathematica; Biologisches Centralblatt; Bulletin de Correspondence Hellénique; Centralblatt f. Physiologie; Century Magazine; Chemical News; Christian Union; Classical Review; Contemporary Review; Coöperative Index to Periodicals; Cosmopolitan; Deutsche Litteraturzeitung; Dialect Notes; Electrician; Englische Studien; English Historical Review; Expositor; Fortnightly Review; Forum; Germania; Göttingen Gelehrte Anzeigen; Harper's Magazine; Hartford Seminary Record; Hebraica; Hermes; Historische Zeitschrift; Independent; Indian Antiquary; Jahresbericht über die Alterthumswissenschaft; Jahresbericht über die Fortschritte der Chemie; Johns Hopkins University Studies; Journal de Mathematiques; Journal für der reine u. Angewandte Mathematik; Journal für Practische Chemie; Journal of Hellenic Studies; Journal of the Chemical Society; Journal of the Microscopical Society; Journal of Philology; Journal of Physiology; Library Journal; Library Notes; Literarisches Centralblatt; Literary News; Literaturblatt für Germ. u. Rom. Philologie; London Weekly Times; Mathematische Annalen; Messenger of Mathematics; Mind; Modern Language Notes; Mittheilungen der Archæologischen Instituts; Mittheilungen der Englischen Sprache und Litteratur; Monatshefte für Chemie; Nachrichten von der Königlichen Gesellschaft der Wissenschaften; Nation; North American Review; Nature; Neue Jahrbücher für Philologie u. Pädagogik; Nineteenth Century; Old and New Testament Student; Philologische Wochenschrift; Philosophical Magazine; Political Science Quarterly; Popular Science Monthly; Proceedings of London Mathematical Society; Punch; Quarterly Journal of Ecouomics; Quarterly Journal of Mathematics; Quarterly Journal of Microscopical Science; Quarterly Review; Quellen und Forschungen; Rathenhorst's Kryptogameu Flora; Review of Reviews; Revue Bleue; Revue Celtique; Revue Historique; Rheinisches Museum für Philologie; Romania; Romanische Forschungen; Science; Scribner's Magazine; Spectator; Transactions of American Philogical Association; Westminster Review; Wochenschrift für Klassiche Philologie; Zeitschrift für Deutsches Alterthum; Zeitschrift für Deutsche Philologie; Zeitschrift für Physikalische Chemie; Zeitschrift für Romanische Philologie; Zeitschrift für Vergleichende Sprachforschung; Zoologischer Anzeiger.

The library is open daily from eight A.M. to ten P.M., and books may be taken out by the students during these hours.

There are in Philadelphia the following important libraries:

The *Philadelphia Library,* which contains about 145,000 volumes. The library will at all times be open to the students for consultation; and students can obtain books on the shares held by the officers of the college. Private subscription, $12 a year for eight volumes, or $10 for nine months.

The *Mercantile Library,* which contains 150,000 volumes. Students can obtain books on the shares held by the College Library. Private subscription, $6.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences,* which contains 30,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

Courses of Study. There will be offered each year major or two-year courses of five

hours weekly in the following subjects: Greek, Latin, English, German, French, Italian and Spanish, History, Political Science, Philosophy, Mathematics, Physics, Chemistry, and Biology.

Graduate courses are offered in Sanskrit and Indo-European Philology, Greek, Old French, Italian, Spanish, and other Romance Languages, Gothic and Teutonic Philology, Old Norse, Old High German, Middle High German, Old Saxon, Anglo-Saxon, English Literature, Celtic, Hebrew, Aramaic, Assyrian, Biblical Literature, History, Political Science, Philosophy, Mathematics, Physics, Chemistry, Morphology, Physiology, and Physiological Chemistry.

Courses in Language and Literature.

The courses in language and literature are meant, first of all, to be complete in themselves, and extensive enough to meet the needs of special students, and secondly, to facilitate the study of comparative philology or of comparative literature. Whenever it has been practicable, as in all the modern languages, one half of the major course has been devoted to strictly linguistic studies, and the other half to the history of literature. In the major courses in Greek and Latin, the customary text-reading will be supplemented by lectures on the history of literature; the advanced course in Greek is constructed on the model of a major course, one year being devoted to comparative philology and Sanskrit, and one to literary studies and the reading of difficult texts. Courses of parallel reading will be required of all students of language and literature, precisely as laboratory work is required of the students of chemistry or biology; these courses are intended to acquaint the students with the works of numerous authors, and it is especially hoped that students of Greek and Latin will, by this means, accustom themselves to read these languages constantly and without assistance.

The courses in ancient and modern languages will be of equal difficulty, and will be placed on a footing of equality. The traditional separation between ancient and modern languages has been disregarded, because, although strictly classical students may always be inclined to combine Greek and Latin, there is, nevertheless, no modern literature of which the study may not fitly be preceded, or supplemented, by the study of Latin or Greek.

Lectures. Whenever possible, as in the courses in Greek, Latin, English, French, and German Literature, in History, Politics, Philosophy, Mathematics, and Science, the instruction is given by means of lectures. It is the object of these lectures to give a clear and succinct statement of facts and principles; to enumerate and criticise with frankness hand-books, authorities, and editions; to touch upon minor or far-lying points with such distinctness as may enable the student to investigate them intelligently at some future day; to bring the student's knowledge down to date, and to inform her, step by step, what things have been definitely ascertained and what things remain to be investigated. It is intended that the notes taken on these lectures, in addition to their immediate practical use, shall be of lasting value for reference, and be the starting-point, or at least the schedule, of studies to be undertaken subsequently. Every isolated student knows how difficult it is to be initiated into the modern scholastic movement otherwise than orally; and, therefore, in addition to the lectures, the several instructors will appoint certain hours in which the students may consult them freely.

The lectures will be accompanied by class work, and by frequent examinations; they will be strictly special, not popular.

The Professors or Associates appointed are the recognised heads of their departments, and only such instructors have been chosen as are qualified to direct both graduate and undergraduate work.

Courses of Instruction. The undergraduate and graduate courses offered in the years 1892–93 and 1893–94 are as follows:

Ancient Languages.

Sanskrit, Greek, and Latin.

Professors and Instructors: Dr. Edward W. Hopkins, Dr. Herbert Weir Smyth, Mr. William Cranston Lawton, Dr. Gonzalez Lodge.

Sanskrit and Comparative Philology.

The instruction in Sanskrit and Comparative Philology is under the charge of Dr. Edward W. Hopkins, Professor of Greek, Sanskrit and Comparative Philology.

Lectures introductory to Comparative Philology, Dr. Hopkins.

Once weekly throughout the year.

This course is open also to undergraduates in their fourth year.

Lectures on Comparative Philology, and Philological Seminary, Dr. Hopkins. *Once weekly throughout the year.*

Students entering this course are expected to be familiar with German and French. A short preliminary course in Sanskrit will also be of great aid to the student. The lectures on Comparative Philology will treat of the connection of the Greek and Latin languages with the related languages of the Aryan group, first, phonetically, secondly, from the point of view of grammatical forms, and lastly, from the point of view of syntax. In the first part of the course, which covers what has been during the last few years the field of the most active research, the student will be introduced to the latest theories and discoveries in Aryan phonetics, and will be expected to read and criticise the articles appearing from time to time in the philological journals, and to prepare reports on these articles. The same method will be pursued during the investigation of the history of forms; and in the third part of the course the student will begin the study of comparative syntax by a close comparison of the use of cases and verbal forms in Sanskrit, Greek, and Latin.

Beginners' Sanskrit, Dr. Hopkins. *Once weekly throughout the year.*

This course is open also to undergraduate students in their fourth year. It will consist mainly of Sanskrit grammar, with selections from Lanman's Reader.

Course in the Rig Veda, Dr. Hopkins.

This course is intended for advanced students of Sanskrit. It is given in the present year and will be given again in 1893-94. The number of hours weekly is determined each year by the needs of the students electing the course.

Introduction to Zend and the Zend-Avesta, Dr. Hopkins.

The number of hours will be determined later.

The first and third courses will be given in alternate years, the course given in 1893-94 being determined by the wishes of the students. The fourth and fifth courses also will alternate.

Greek.

The instruction in Greek is under the charge of Dr. Edward W. Hopkins, Professor of Greek, Sanskrit and Comparative Philology; Dr. Herbert Weir Smyth, Professor of Greek, and Mr. William Cranston Lawton, Professor of Greek and Latin Literature. The instruction offered in Greek covers twenty-four hours of lectures and recitations weekly, and includes five hours a week of elementary work, ten hours a week of undergraduate major and minor work, five hours weekly of post major work, open only to graduates and to undergraduates that have completed the major course in Greek; and four hours weekly of graduate work.

The courses are as follows:

Beginners' Course.

A course of five hours weekly throughout the year, under the direction of Dr. Smyth, is provided for those students who may wish to study

Greek, but whose examination for matriculation did not include it. Students that desire to continue the study of Greek are expected to read more Greek than is required of the other students, in order that in the ensuing year they may pass the entrance examination and enter upon the first year of the major course. Students that wish may substitute for this course the minor, or first year's course, in Latin, but for the course in Minor Latin, a student choosing Latin as one of the languages of her Group, may substitute a year of Post Major Latin, or a year of Minor French, or Minor German. Either the Beginners' Course in Greek or the Minor Course in Latin is required of candidates for the degree of Bachelor of Arts that have not passed the matriculation examination in Greek.

Major Course.

FIRST YEAR.

(*Minor Course.*)

1st Semester.

Odyssey, Books v.–xi., Mr. Lawton. *Four times weekly.*
(May be taken as a Free Elective.)

Greek Prose Composition, Dr. Hopkins. *Once weekly.*

Private Reading, Andocides, *Mysteries.*

2nd Semester.

Plato, *Apology* and *Crito;* Lysias, *Selected Orations*, Dr. Hopkins. *Four times weekly.*

Greek Prose Composition, Dr. Hopkins. *Once weekly.*

Private Reading, Euripides, *Alcestis.*

SECOND YEAR.

1st Semester.

History of Literature, Epic and Lyric, Mr. Lawton, *Twice weekly.*

Sophocles, *Antigone*, Dr. Hopkins. *Three times weekly.*

Private Reading, Euripides, *Hippolytus.*

2nd Semester.

Lectures on Greek Literature, Drama and Prose, Mr. Lawton. *Twice weekly.*

Thucydides, *Selections*, Dr. Hopkins. *Three times weekly.*

Private reading, Isocrates, *Panegyricus.*

The usual second year's work of the Major Course may be divided so as to cover a period of two years; but the lectures on literature must, if elected, be taken for both semesters.

In 1893-94, in the Minor Course, Dr. Hopkins will read in the second semester, Plato, *Apology* and *Crito;* Andocides, *Mysteries;* in the Major Course, in the first semester, Æschylus, *Persæ;* and in the second semester, Demosthenes, *De Corona.*

In 1893-94, the private reading for the Minor Course will be Lysias, *Selected Orations*, and Euripides, *Medea;* the private reading for the Major Course will be Sophocles, *Ajax*, and Isocrates, *Panegyricus.*

Examinations on the courses of private reading will be held at the end of each semester.

Group: Greek with any language, or with Mathematics.

Post Major Courses.

Post Major courses are offered to those that have completed the Major Course; they may also be taken by graduate students.

1st Semester.

Rapid Reading of Plato, *Protagoras*, Mr. Lawton.	*Once weekly.*
Greek Drama, *Prometheus*, *Persæ*, *Hippolytus*, Mr. Lawton.	*Once weekly.*
Theocritus, *Selections*, Dr. Hopkins.	*Once weekly.*
Greek Lyric Poets, *Selections*, Dr. Hopkins.	*Once weekly.*
Æschines, Dr. Hopkins.	*Once weekly.*
Æschylus, *Agamemnon*, Dr. Smyth.	*Once weekly.*
New Testament Greek, Dr. Barton.	*Twice weekly.*

This course will presuppose a knowledge of classical Greek. After some introductory lectures on the formation and peculiarities of the New Testament Greek, one hour weekly during the first semester will be devoted to a careful study of the text of one of the Gospels, and the other hour to lectures on the history of the New Testament text, both in its written and its printed form, on the helps extant for emending it, and the method of using them. In the second semester the subject of study will be the Epistles of Paul. The students will be expected to read privately during the first semester the text of one of the Gospels that has not been read in class, and during the second, either the Acts of the Apostles, the Apocalypse, or the Epistle to the Hebrews.

2nd Semester.

Drama (continued), Mr. Lawton.	*Once weekly.*
Pindar, *Selections*, Dr. Hopkins.	*Once weekly.*
Æschylus, *Eumenides*, Dr. Smyth.	*Once weekly.*
New Testament Greek (continued), Dr. Barton.	*Twice weekly.*

In 1893–94 Dr. Hopkins will read during the first semester *Selections* from the Lyric Poets and Theocritus two hours weekly; Demosthenes, *Selections*, one hour weekly, and advanced Greek Prose Composition one hour weekly; in the second semester, Sophocles, *Oedipus Tyrannus*, one hour weekly; Mr. Lawton will read, during the first semester, Herodotus, *Book I.*, and *Selections* from other books snowing the general structure of the history, two hours weekly, and in the second semester, Pindar, two hours weekly; Dr. Smyth will read, in the second semester only, Æschylus, *Agamemnon* and *Eumenides*, two hours weekly.

Graduate Courses.

Graduate Courses.

The graduate courses in Greek are varied from year to year, so that they may be pursued by the student for several consecutive years. Certain of these courses are required of students taking Greek as a minor subject in the examination for the degree of Doctor of Philosophy, and certain others, of students taking it as a major subject. The Post Major courses are open to graduate students. A large part of the work expected of graduate students consists of courses of reading pursued under the direction of the department; and reports of works thus read will from time to time be required of the students.

Attic Tragedy, Dr. Smyth.	*Four times weekly throughout the year.*

This course will consist of the reading of the entire works of Æschylus, and the critical interpretation of a selected portion. One hour a week is set apart for Seminary work on the text of a single play, two hours to translation and a running commentary upon the other tragedies, and to lectures upon various subjects connected with the drama (style, vocabulary, syntax, dialect, metres, etc.). The fourth hour (during the first semester only) will be devoted to the study of Aristotle's *Poetics*. Each member of the class will write, during the year, one or more papers on special topics. Students taking this course are expected to provide themselves in advance with Paley's Æschylus (Bibliotheca Classica edition), Haigh's Attic Theatre (Macmillan & Co.), and Schmidt's Rhythmic and Metric, translated by Prof. White (Ginn & Co.).

For the course in Attic Tragedy will be substituted, from year to year, as occasion may require, courses dealing with Lyric Poetry, the Orators, the Historians, and Plato. Students who are candidates for the Ph.D. degree will be afforded an opportunity of pursuing three such courses, in each of which the work of the year is concentrated upon a single department of Greek literature.

Latin.

The department in Latin is under the charge of Dr. Gonzalez Lodge, Associate in Latin, and Mr. William Cranston Lawton, Professor of Greek and Latin Literature. The instruction offered covers eighteen hours of lectures and recitations weekly, and includes ten hours a week of undergraduate major and minor lectures, five hours weekly of post major work, open only to graduates and to undergraduates that have completed the major course in Latin; and three hours weekly of graduate work.

First Year.

(*Minor Course.*)

1st Semester.

Major Course.

Livy, *Book I.*; Cicero, *Second Philippic*, Dr. Lodge. — *Four times weekly.*

Latin Prose Composition, Dr. Lodge. — *Once weekly.*

Private Reading, Virgil, *Æneid VII., VIII.*

2nd Semester.

Horace, *Odes* and *Epodes*, *Selections*, Mr. Lawton. — *Four times weekly.*
(May be taken as a Free Elective.)

Latin Prose Composition, Dr. Lodge. — *Once weekly.*

Private Reading, Virgil, *Æneid IX., X.*

Second Year.

1st Semester.

Juvenal and Catullus, *Selections*, Mr. Lawton. — *Twice weekly.*

Tacitus, *Annals*, Dr. Lodge. — *Three times weekly.*

Private Reading, Pliny, *Selected Letters.*

2nd Semester.

Horace, *Satires* and *Epistles;* Virgil's *Georgics, Selections*, Mr. Lawton. *Twice weekly.*

Tibullus, Propertius, Lucan, Dr. Lodge. *Three times weekly.*

Private Reading, Cicero, *Selected Letters.*

In 1893-94 Mr. Lawton will lecture to the Major Class two hours weekly for both semesters, on the History of Literature, and will read in connection with the lectures selections from less familiar Latin authors.

Group: Latin with any language, or with Mathematics.

Post Major Courses.

Five hours weekly of Post-Major Latin is offered students that may have completed the Major Course in Latin.

1st Semester.

Lucretius, *Selections from Books I., II., III., V.*, Mr. Lawton. *Twice weekly.*

Terence, *Four Plays*, Dr. Lodge. *Twice weekly.*

This course will not be given in 1893-94.

Latin Prose Composition, Dr. Lodge. *Once weekly.*

2nd Semester.

Cicero's public life and letters, Watson's Selections of Letters, and Merivale's Roman Triumvirates, Mr. Lawton. *Twice weekly.*

Plautus, *Three Plays*, Dr. Lodge. *Twice weekly.*

Latin Prose Composition, Dr. Lodge. *Once weekly.*

In 1893-94 Mr. Lawton will substitute for the course in Cicero the Virgilian Epic, with fragments of Ennius, *Annals*, etc.; and in the first semester will substitute another author for Lucretius, if the course is elected by students that have read Lucretius in 1892-93.

Graduate Courses.

Graduate Courses.

Graduate work in Latin is conducted by Dr. Lodge according to the Seminary method. One department of Latin Literature or one Latin author is selected each year as a subject of study. All the best and most recent editions, together with a large number of special treatises, dissertations, etc., are collected in the seminary library, and graduate students are encouraged to make themselves thoroughly acquainted with all the literature bearing upon the subject chosen. To this end the work is arranged along the following lines:

a. Historical and Critical Lectures by the Instructor.

b. Critical Interpretation of selected passages from the principal authors by the students.

c. Abstracts and Analyses of important dissertations and special treatises, by the students.

d. Every student is expected to make, during the year, an original study of some subject connected with the work of the Seminary.

During the current year the Seminary has met twice weekly to study the Roman Satirists in the manner indicated.

In 1893-94 the Roman Drama will be the subject of study, and in 1894-95, Historiography ; and detailed announcements of these courses will be made at a later date.

Candidates for the degree of Doctor of Philosophy will thus be afforded an opportunity of pursuing graduate work through three successive years.

Dr. Lodge will also lecture on Latin Syntax one hour weekly during the second semester of each year, treating, in 1892-93, the Noun ; in 1893-94, the Verb ; in 1894-95, the Subordinate Sentence.

Roman Satire (Seminary), Dr. Lodge. *Twice weekly throughout the year.*

Lectures on Latin Syntax, *The Noun*, Dr. Lodge. *Once weekly during the second semester.*

Modern Languages.

Professors and intructors : Dr. M. Carey Thomas, Dr. Mary M. Gwinn, Dr. Hermann Collitz, Miss Rose Chamberlin, Mr. James Douglas Bruce, Dr. Joseph A. Fontaine, Mr. Frederic M. Page, Miss Mabel Parker Clark, Miss Abby Kirk.

English.

The instruction in English is under the direction of Dr. M. Carey Thomas, Professor of English, Dr. Mary M. Gwinn, Associate in English, Mr. James Douglas Bruce, Associate in Anglo-Saxon, Miss Mabel Parker Clark, Reader in English, and Miss Abby Kirk, Reader in English. It includes two years of lectures on literature and language required of every candidate for a degree; two years of advanced English, which presupposes as much information as is contained in the required course, and may be elected in combination with the major course in any other language or as a free elective; and graduate courses in English literature, Essay-work, Anglo-Saxon, and Early English.

Required Course. The required course consists of lectures on literature and language, in which the history of English literature will be regarded as far as possible from the point of view of European literature generally, essay work, including the study of the principles of composition, and courses of private reading, which are meant to familiarise the student with English authors.

Six essays on single authors selected by the student with the approval of her instructor are required of every student in this course.

1st Semester. First Year.

Lectures on the English language, Dr. Thomas. *Four times weekly till Xmas.*

Lectures on the history of Anglo-Saxon literature, with an introduction into the study of early Teutonic literature and mythology, Dr. Thomas. *Three times weekly after Xmas.*

Essay-work, Dr. Gwinn, Miss Kirk. *Twice weekly.*

2nd Semester.

Lectures on the history of English literature to the time of Spenser, inclusive, with an introduction into the study of French mediæval literature, Dr. Thomas. *Three times weekly.*

Essay-work, Dr. Gwinn, Miss Kirk. *Twice weekly.*

SECOND YEAR.

1st Semester.

Lectures on the history of English literature from Spenser to the Restoration, inclusive, with a short account of Italian literature, Dr. Thomas. *Three times weekly.*

Essay work, Dr. Gwinn, Miss Clark. *Twice weekly.*

2nd Semester.

Lectures on the history of English literature from the Restoration to the present time: with a short account of the literature of France in the 17th and 18th centuries, Dr. Thomas. *Three times weekly.*

Essay work, Dr. Gwinn, Miss Clark. *Twice weekly.*

Parallel courses of private reading, on which weekly examinations are held, are arranged in connection with the lectures, and the writing of essays will form part of each year's work.

The courses of the first and second year will be given alternately, the second in 1892-93, and the first in 1893-94, and may be attended in reverse order.

Major Course.

The Major Course in English differs slightly from the other major courses of the college, in that it must always have been preceded by two years' undergraduate study of English in the required course, and is intended for graduate students or for those undergraduate students who are exceptionally anxious to specialise in English. Either year may be taken separately as a Free Elective by students that have completed the required course.

FIRST YEAR.

Language—Minor Course.

1st Semester.

Anglo-Saxon Grammar and reading of Anglo-Saxon texts, Mr. Bruce. *Five times weekly.*

The course in Anglo-Saxon begins with Sievers' Anglo-Saxon Grammar and the prose contained in Bright's Anglo-Saxon Reader. Poetical Selections from Bright's Reader and portions of Beowulf are next read with the class, with especial attention to grammatical forms and the elements of historical grammar.

2nd Semester.

Early English Grammar and the reading of Early English Texts, and Chaucer, Mr. Bruce. *Five times weekly.*

In addition to the work in Chaucer this course will include the study of Sweet's First Middle English Primer and readings from the chief documents of Transition English.

SECOND YEAR.

Literature—Minor Course.

English Poets of the Nineteenth Century, Dr. Thomas. *Twice weekly.*
English Essayists and Critics of the Nineteenth Century, Dr. Gwinn. *Three times weekly.*

The year is essentially a year of seminary work and essay-writing.

The authors studied may be varied from year to year. The poets chosen for 1892-93 are Shelley, Byron, Keats, Leigh Hunt, Wordsworth, Coleridge, and Browning; the essayists and critics, Matthew Arnold, Mr. Swinburne, and Mr. Pater.

Group: English with any language.

GRADUATE COURSES.

Graduate Courses. There will be offered each year two distinct graduate courses in English, one in literature and one in language, and these courses will be so varied that they may be followed by the graduate student throughout three years. The graduate courses in literature presuppose at least as much knowledge as is obtained in the two years' course of undergraduate lectures on English Literature; and the graduate courses in Anglo-Saxon presuppose as much knowledge of Anglo-Saxon as is obtained in the language year in the English Major.

Students that choose English as their chief subject in their examination for the degree of Doctor of Philosophy must have, if they specialise in literature, at least as much knowledge of Anglo-Saxon and Early English, and if they specialise in language, at least as much knowledge of literature, as is obtained in the courses required of those students who make English one of the chief subjects of undergraduate study, and must have taken at least one course in essay-work.

Literature. The graduate instruction in English literature will include the direction of private reading and the assignment of topics for investigation.

The Elizabethan and Jacobean Drama, Dr. Thomas.
Twice weekly throughout the year.

The time required for reading in connection with the lectures makes this course the equivalent of four hours weekly. During the first semester the Mystery and Miracle Plays and the chief works of the pre-Shakespearean Drama are read privately by the class and discussed in detail in the lectures and conferences, different plays being assigned to different members of the class for report and discussion. In the second semester Shakespeare's histories, and seven or eight of his other plays are read critically and the remaining plays are studied privately by the members of the class. The chief plays of the other Elizabethan and Jacobean dramatists are read in connection with the different periods of Shakespeare.

The Elizabethan and Jacobean Drama, and the Drama of the Restoration, Dr. Gwinn. *Three times weekly throughout the year.*

This course, which is meant to be taken in connection with the course conducted by Dr. Thomas, deals in the first semester with the Critics of the Drama, and with Heywood; in the second semester with Beaumont and Fletcher and the dramatists of the Restoration. The time required for reading and for the preparation of written papers makes the course the equivalent of three hours weekly.

Eighteenth Century Authors, Dr. Gwinn. *Twice weekly throughout the year.*

The work in this course consists mainly of private reading and the preparation of written papers. The class will meet from time to time to discuss the subjects of the papers. The authors studied may be varied from year to year. Those studied in the first semester of 1893-94 will be Swift, Steele and Addison.

Beowulf, Mr. Bruce. *Twice weekly throughout the year.* *Language.*

The critical reading of Beowulf is supplemented by lectures on the style of the Old English Epic and the chief theories concerning the composition of Beowulf; also, on questions of Teutonic origins suggested by the text. Especial attention is given to an exposition of the theories of the structure of Alliterative Verse.

Old English Phonology, Mr. Bruce.

Twice weekly throughout the year.

This course consists of lectures on the History of English Sounds in the Anglo-Saxon period with especial reference to their development out of the general Teutonic. It is intended as introductory to a similar course on the History of English Inflections.

Chaucer, Mr. Bruce. *Twice weekly throughout the year.*

Reading of Chaucer and lectures on questions concerning his place in the development of the English Language and Literature. His relations to Italian Literature are especially considered.

Andreas, Mr. Bruce. *Once weekly throughout the year.*

This course is intended as supplementary to the lectures on Old English Phonology. In addition to reading the text, students are expected to apply the principles laid down in the course on old English Phonology to the explanation of grammatical forms as illustrated by the Andreas.

English Seminary, Dr. Thomas, Mr. Bruce.

Two hours fortnightly throughout the year.

The most advanced graduate students in English are expected to unite with the instructors in the English seminary. Reports are assigned to individual members, which are then read and discussed by the whole seminary; and all the members of the seminary are required to make themselves familiar with the literature of the special topic selected for each meeting.

The subject for the year 1892-93 is Chaucer; the subjects for 1893-94 and 1894-95 will be announced at a later date.

German.

The instruction in German is under the direction of Dr. Hermann Collitz, Associate Professor of German and Teutonic Philology, and Miss Rose Chamberlin, Reader in German.

Beginners' Class.

A class for beginners in German, under the direction of Miss Rose Chamberlin, five hours weekly throughout the year, is provided, in order that those students whose matriculation examination did not include German may with less difficulty obtain the reading knowledge of it that they must possess before receiving a degree. By great diligence such students may, it is hoped, acquire sufficient knowledge to be admitted, should they desire it, into the Major Course in German.

Conversation Class.

A class for German conversation will meet, in the afternoon or evening, once weekly throughout the year. It may be attended by any student that has passed the matriculation examination in German.

Major Course. The Major Course presupposes as much knowledge as is implied by the matriculation examination in this subject. Either the first or second year of the Major Course may be taken as a Minor Course.

FIRST YEAR.

(*Minor Course.*)

1st Semester.

Lectures on the History of German Literature from Klopstock to the present time, Dr. Collitz. *Twice weekly.*

These lectures will be delivered in German and will treat the great classical authors, as well as the most modern poets and novelists; they are open as a Free Elective to all students that have passed the matriculation examination in German.

Schiller, *Wallenstein*, Miss Chamberlin. *Twice weekly.*

German Prose Composition and Reading, Miss Chamberlin. *Once weekly.*

German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which examinations will be held during the semester, is as follows: Lessing, *Emilia Galotti;* Goethe, *Iphigenie;* Schiller, *Selections from the Thirty Years' War. Selections from the Thirty Years' War* is the private reading for those that elect the course in *Wallenstein* only. The remaining works are to be read in connection with the lectures on literature.

2nd Semester.

Lectures on the History of German Literature from Klopstock to the present time (continued), Dr. Collitz. *Twice weekly.*

Goethe, *Faust* (*1st Part*), Miss Chamberlin. *Twice weekly.*

German Prose Composition and Reading, Miss Chamberlin. *Once weekly.*

German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which examinations will be held during the semester, is as follows: *Selections from Volksbücher, Commentators, etc.;* Schiller, *Don Carlos, Braut v. Messina. Selections from Volksbücher, Commentators, etc.* is the private reading for those that elect the course in *Faust* only. The remaining works are to be read in connection with the lectures on literature.

SECOND YEAR.

1st Semester.

The History of German Literature from the earliest times to the time of Klopstock, exclusive, Dr. Collitz. *Twice weekly.*

These lectures, which are delivered in German, begin with the account of German civilisation found in classical authors, and include Ulfilas, the time of Charlemagne, the fragments of heathen poetry, the Hêliand, Otfried, the Nibelungenlied, and the Heldenbuch, the time of Wolfram, Gottfried, Hartmann, the Minnesingers and Meistersingers, Sebastian Brandt, Hans Sachs, etc.

Max Müller, *The German Classics* (*1st Part*), Dr. Collitz. *Once weekly.*

Goethe, *Faust* (*2nd Part*), Miss Chamberlin. *Once weekly.*

German Prose Composition and Reading, Miss Chamberlin. *Once weekly.*

German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which examinations will be held during the semester, is as follows: Lessing, *Minna v. Barnhelm, Nathan der Weise;* Goethe, *Clavigo*, in connection with the lectures on literature; *Selections from Commentators*, etc. for those that elect the course in *Faust* only.

2nd Semester.

The History of German Literature from the earliest times to the time of Klopstock, exclusive (continued), Dr. Collitz. *Twice weekly.*

Max Müller, *The German Classics* (*1st Part*), Dr. Collitz. *Once weekly.*

Goethe, *Faust* (*2nd Part*), Miss Chamberlin. *Once weekly.*

German Prose Composition and Reading, Miss Chamberlin. *Once weekly.*

German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which examinations will be held during the semester, is as follows: Goethe, *Tasso;* Scheffel, *Ekkehard;* Chamisso, *Peter Schlemihl*, in connection with the lectures on literature; *Selections from Commentators* for those that elect the course in *Faust* only.

Group: German with any language.

POST-MAJOR COURSES.

Post Major Courses.

Post-Major courses are offered to those who have completed the Major Course, and they may be taken also by graduate students. The courses are conducted entirely in German.

Lectures on German Literature, Dr. Collitz. *Twice weekly throughout the year.*

The lectures on literature treat in greater detail the more important periods of German literature of which a more general view has been given in the minor and major lectures.

A course in Middle High German may, at the desire of the students electing the same, be substituted for the lectures on literature.

Critical Study of the Goethe-Schiller correspondence, with reference to the principal works of Goethe and Schiller, and to their other important letters; *or* Critical Study of Goethe's Early Lyrics and other writings, Miss Chamberlin. *Twice weekly throughout the year.*

Themes and Essays in German in connection with above course, Miss Chamberlin. *Once weekly throughout the year.*

Private reading will be assigned in connection with the above courses, and the essay work cannot be taken without the course in the Goethe-Schiller correspondence.

GRADUATE COURSES.

Graduate Courses.

The following graduate courses are offered:

Middle High German Grammar and reading of Middle High German Texts, Dr. Collitz. *Twice weekly throughout the year.*

This course includes a brief abstract of Middle High German grammar, with especial reference to the difference between Middle High German and Modern German, and a study of the most prominent authors in Middle High German. Part of Hartmann's *Armer Heinrich* is read, and is followed by selections from the *Nibelungenlied*, a brief account being given of the "Nibelungenfrage" and of the manuscripts of the *Nibelungenlied.* In the second semester Middle High German lyric poetry will be studied in selections from Walther von der Vogelweide and other Minnesingers, and the Middle High German knightly epic poetry in the poetry of its three main representatives: Hartmann (*Iwein*), Wolfram von Eschenbach (*Parzival*), and Gottfried von Strassburg (*Tristan*).

This course is required of all students that make German the major subject in their examination for the degree of Doctor of Philosophy. The private reading will include the entire works of the authors treated in the course.

Old High German, Dr. Collitz. *Once weekly throughout the year.*

This course presupposes an accurate knowledge of Gothic and some acquaintance with Middle High German grammar, Old High German being studied in its relation to Early Teutonic and to the later periods of High German. Special attention is given to the differences between the Old High German dialects, and to the study of some especially interesting or difficult texts, such as the *Hildebrandslied* and *Otfried*.

General Teutonic Philology.

The instruction in this department is under the direction of Dr. Hermann Collitz, Associate Professor of German and Teutonic Philology. Special attention is called to the facilities for the study of Comparative Teutonic Philology offered in Bryn Mawr College. The English and the German departments together have provided for a complete course in Teutonic Philology, comprising both the study of the individual languages (Gothic, Norse, Anglo-Saxon, Old Saxon, Old High German, Middle High German, Platt-Deutsch, etc.) and that of general comparative philology.

There is still much opportunity for original work in Teutonic philology; and it is hoped that students who have completed the full course will be able to take an active part in it. It should be remembered that original work does not require any unusual faculties, and presupposes only a more widely extended and more accurate knowledge than former investigators possessed, and training under an experienced teacher from whom the student may learn where to start and how to proceed.

Gothic, Dr. Collitz. *Twice weekly throughout the year.*

Gothic phonetics and inflection are studied in connection with the elements of comparative Aryan grammar. Students are recommended to use either Wright's or Braune's Grammar.

As a thorough knowledge of Gothic is the foundation of the study of historical and comparative Teutonic grammar, every graduate student in Teutonic grammar is advised to take this course as early as possible.

Old Norse, Dr. Collitz. *Once weekly throughout the year.*

This course is intended as an introduction to the study of Old Norse language and literature. As students entering this course are supposed to be acquainted with Gothic and with Anglo-Saxon or Old High German grammar, their attention will be called in the grammatical part of the course to the relation between Gothic and Norse, and to the differences between the East Teutonic and West Teutonic branches. Among the texts to be read, selections from the younger and the older Eddas will take a prominent place. In connection with the latter, the old Teutonic heroic verse and Prof. Sievers' system of metrics will be explained.

Outlines of Teutonic Philology, Dr. Collitz. *Once weekly throughout the year.*

The study of Comparative Teutonic Philology is recommended to those students only who are acquainted with the single old Teutonic languages, and have studied Gothic, Old High German, Old Saxon, Anglo-Saxon, and Norse. The object of the course is to compare the single old Teutonic languages with each other and with the related Aryan languages,—or in other words (1) to reconstruct the primitive Teutonic languages; (2) to point out the characteristic features of primitive Teutonic in distinction from primitive Aryan; (3) to carry down the history of early Teutonic from the period of unity into the early stages of the individual Teutonic languages. Together with Teutonic phonetics and inflection some problems of a more general character will be discussed, such as the question of relationship of dialects, of consistency of phonetic laws, etc.

Romance Languages.

French.

The instruction in Romance Languages is under the direction of Dr. Joseph A. Fontaine, Associate Professor of Romance Languages, and Mr. Frederic M. Page, Reader in Romance Languages.

Beginners' Class.

A class for beginners in French, under the direction of Mr. Frederic M. Page, five hours weekly throughout the year, is provided, in order that those students whose matriculation examination did not include French may with less difficulty obtain the reading knowledge of it that they must possess before receiving a degree. By great diligence such students may, it is hoped, acquire sufficient knowledge to be admitted, should they desire it, into the Major course in French.

Conversation Class.

Opportunities for oral practice in French will be extended during the year in both minor and major courses. An extra hour in French conversation is offered to general students, and is given whenever a sufficient number of students apply for it.

Major Course.

Entrance to the Minor Course in French presupposes as much knowledge as is required to pass the matriculation examination in that subject. A very considerable portion of the work in French, as much, indeed, as the knowledge of the students justifies, will be conducted in the French language.

First Year.

(*Minor Course.*)

Lectures on the History of French Literature of the 18th and 19th Centuries, accompanied by collateral readings of representative French authors, under direction of Dr. Fontaine. *Twice weekly throughout the year.*

These lectures are delivered in English during the first six weeks of the course, after which time French is used exclusively, and students are then expected to take notes and make answers in French. The aim of these lectures is to familiarise the students with the spoken language of France, and to form, cultivate, and direct their literary taste. An attempt is made also to compare the periods of French literature under consideration with the corresponding periods in English, Italian and Spanish literature.

Critical Readings in French Prose and Poetry, Mr. Page.

Once weekly throughout the year.

Practical Exercises in French Syntax, Composition, etc., Mr. Page.
Once weekly throughout the year.

Oral Practice in French ; Talks on French Literature, Language, etc., conducted in French, Mr. Page. *Once weekly throughout the year.*

The collateral private reading on which examinations, at stated intervals, are held is as follows: some of the dramas and historical prose of Voltaire, some of the philosophic prose of Rousseau, selections from the prose of Diderot, the comedies of Beaumarchais, the poems of André Chenier, portions of the *Gênie du Christianisme* and other works of Chateaubriand, works of Mme. de Staël in part; representative works and selections from works of the great Romanticists and other nineteenth century authors, Lamartine, Victor Hugo, Bêranger, Alfred de Musset, Alfred de Vigny, George Sand, Balzac; also contemporary prose and dramas. This reading matter is specially selected with a view to representing the literature of the period and to illustrating the subject-matter of the lectures.

SECOND YEAR.

(*Major Course.*)

The French Language will be used altogether in conducting the Major Course.

Lectures on French Literature, from its orgin to the 17th century inclusive, accompanied by collateral reading of representative French authors, under the direction of the professor in charge, Dr. Fontaine.
Twice weekly throughout the year.

Critical Readings and Studies in the Great Masterpieces of 15th, 16th, 17th Centuries, Dr. Fontaine. *Once weekly throughout the year.*

Studies in French Style, Composition, etc., Dr. Fontaine.
Once weekly throughout the year.

Advanced Oral Practice, Writing of French Essays, and Talks on various subjects of interest to students of French, conducted exclusively in French, Dr. Fontaine. *Once weekly throughout the year.*

The collateral private reading, on which examinations, at stated intervals, will be held, consists of selections from the leading authors of the sixteenth century, Montaigne, Rabelais, from the *Satire Ménippée*, from *Ronsard and the Pléiade*, *Robert Garnier*, and others. An extensive course is marked out in the classics of the seventeenth century, which will be made as far as possible representative, and will accompany and illustrate the lectures. In connection with the lectures on Corneille and Racine, for example, *Le Cid*, *Horace*, *Cinna*, *Polyeucte*, *Le Menteur*, *Andromaque*, *Phèdre*, *Athalie*, *Les Plaideurs*, and selections from *Britannicus*, *Mithridate*, and *Esther* are read. The amount of private reading assigned to students is so great that a critical interpretation is not required, the main point being that they should be thoroughly acquainted with the contents. It is expected that idiomatic phrases or syntactic complications will offer no serious difficulties to students in the French major course. Molière, Malherbe, Boileau, La Fontaine, Regnier, Pascal, La Rochefoucauld, Mme. de Sévigné, the great pulpit orators, and others, find a place in the course.

Group: French with any language; *or* French with Italian and Spanish.

GRADUATE COURSES.

Graduate Courses. Post-major and graduate courses in Old French, Romance Literature, and Philology will be offered. They will be varied from year to year, and

number of courses and the hours given to each course weekly will be determined by the needs of the students.

The graduate literary work is directed towards a special treatment of some such subjects as the development of early French theatre; French tragedy in the 18th century; the Romantic drama; conditions and tendencies of modern French literature, considered together with modern French criticism.

Graduate students interested in the study of literature will find it to their advantage to attend Dr. Fontaine's lectures on French literature twice weekly throughout the two years of the major course in French.

Critical reading of Old French Texts, Dr. Fontaine.

Twice weekly throughout the year.

This course includes the *Serments de Strasbourg*, *Cantilène de Sainte Eulalie*, *Passion duChrist*, *Vie de Saint Léger*, *Vie de Saint Alexis* and *Chanson de Roland*.

The private reading consists of one or two poems of *Chrêtien de Troies*, *Aucassin et Nicolete* and some early specimens of French prose.

French Philology (Morphology and Phonetics), Dr. Fontaine.

Comparative study of Old and Modern French Syntax, Dr. Fontaine.

Comparative Romance Philology (Morphology and Phonetics), Dr. Fontaine.

Comparative survey of French, Italian, and Spanish Literature, Dr. Fontaine.

Italian and Spanish.

The instruction in Italian and Spanish is under the direction of Dr. Joseph A. Fontaine, Associate Professor of Romance Languages, and Mr. Frederic M. Page, Reader in Romance Languages.

FIRST YEAR. *Major Course.*
(*Minor Course.*)

Italian, Mr. Page. *Three hours weekly throughout the year.*

Although the instruction, during the first year in Italian, must necessarily be linguistic rather than literary, the texts employed in class and for the private reading are of such quality and number as to lead the student to appreciate in a certain measure the range of modern Italian literature.

Besides a systematic course in Italian grammar and composition, the year's work includes the critical reading of Baredi's "Notte Vizzarra;" De Amici's "Alberto;" thirty cantos selected from Dante's "Inferno" and "Purgatorio;" Pellico's "Francesca da Rimini;" also selections from Manzoni's "Promessi Sposi;" De Amici's "Vita Militari," and Tasso's "Gerusalemme Liberata." As soon as practicable a certain amount of private reading is assigned.

Spanish, Mr. Page. *Twice weekly throughout the year.*

The first year's course in Spanish follows, as far as possible, the plan adopted in the Italian.

The material for class and private reading is mainly drawn from the works of nineteenth century authors, such as Fernan Caballero, Selgas, Valera, Castelar, etc.; but it also includes three dramas selected from the works of Lope de Vega, Calderon, and Alarcon.

SECOND YEAR.

Italian, Dr. Fontaine or Mr. Page. *Three hours weekly throughout the year.*

The second year's course includes: *a*, a critical study of Dante's "Paradiso" and "Vita Nuova," and selections from Ariosto's "Orlando Furioso;" and *b*, one representative drama

from the works of Goldoni, Alfieri and Manzoni, and a critical survey of the Italian literature of the beginning of the nineteenth century; also a survey of the Italian literature of the fourteenth and fifteenth centuries.

A course of private reading is selected to represent the Italian literature of the first quarter of the nineteenth century.

Spanish, Dr. Fontaine or Mr. Page. *Twice weekly throughout the year.*

The principal subjects of study for the second year are drawn: *a*, from the Spanish literature of the seventeenth century, *i.e.*, the best works of Cervantes and the great dramatists; and *b*, from the works of the more modern literary movement in Spain.

The private reading is selected from nineteenth century authors.

Group: Italian and Spanish with any language.

Celtic and Slavonic Languages.

Dr. Hermann Collitz, Associate Professor of German and Teutonic Philology, will offer courses in these languages to students of comparative Aryan or of comparative Teutonic philology. Such students will find it of great advantage to gain at least some knowledge of Old Irish and Old Slavonic. Courses will also be arranged for students that prefer to study Lithuanian or any of the more important living Slavonic languages (Russian, Polish, or Servian).

Semitic Languages and Biblical Literature.

The instruction in Semitic Languages is under the direction of Dr. George A. Barton, Associate in Biblical Literature and Semitic Languages.

The courses in Semitic languages and Biblical studies will be varied from year to year, so as to form a three years' course for those students who wish to make them the chief subject in the examination for the degree of Doctor of Philosophy; and not more than ten hours of lectures will be given in any one year, the courses selected being decided by the needs of the students.

The college was particularly fortunate in securing in the year 1892 the library of the late M. Arthur Amiaud, of Paris. While M. Amiaud was especially eminent as an Assyriologist, he was also prominent as a general Semitic student. His library was the collection of an active scholar, and forms a working library for the student in every department of Semitic study. It is particularly rich in the Hebrew, Syriac, and Assyrian languages, containing several works, indispensable to the student, which are now out of print. These books, together with those already owned by the col-

lege and easily accessible in neighboring libraries, form a good equipment for the specialist in Biblical or Semitic study.

Hebrew, Dr. Barton. *Twice weekly throughout the year.* ***Semitic Languages.***

It is the aim of this course to give the student a working knowledge of the Hebrew language. As soon as the grammatical principles are sufficiently mastered, portions of the Hebrew Bible will be read, including passages from Genesis, Exodus, Deuteronomy, and Samuel.

A knowledge of Hebrew is important not only to the student of the Old Testament, but also to all students of Semitic literature and of the history of religion. It is the most natural, and in some respects the easiest, introduction to the study of the Semitic languages.

Aramaic, including Syriac and Biblical Aramaic, Dr. Barton.
Twice weekly throughout the year.

In this course the first semester is devoted to Syriac. After the forms are learned, which is an easy matter for students acquainted with Hebrew, selections are read from the Syriac versions of the New Testament, from the chronicles of Barhebräus, and from the hymns of Efrem. The second semester is devoted to Jewish Aramaic, which is the dialect of large parts of the books of Daniel and Ezra, as well as of the Targums.

A knowledge of Syriac is of especial value for the textual criticism of the Bible, since the Syriac versions of the Bible are among the earliest. It is important also to students of general Semitics, particularly to those who pursue Assyrian, and to the students of ecclesiastical history and of general mediæval history. The work of the second semester enables the student already acquainted with Hebrew to study the Aramaic portions of the Hebrew Bible, and furnishes an introduction to the study of the Talmud.

Assyrian, Dr. Barton. *Twice weekly throughout the year.*

For students of ancient oriental history and of Semitic religion Assyrian is of especial importance. It is generally recognised as almost indispensable to those who purpose to teach Semitic languages, or to become students of Hebrew history and prophecy. The complicated nature of the written character and the absence of adequate dictionaries make a knowledge of some other Semitic tongue important for the study of Assyrian.

The reading of transliterated texts will begin with the first lesson, the texts being taken mainly from the classical Assyrian period (1100–650 B.C.), and especially from that of the dynasty of Sargon.

A few of the written characters will be learned daily, and as soon as learned will be used in writing exercises and reading texts in the original. The Assyrian account of the deluge and some of the creation tablets will be read in class.

Courses in more advanced Hebrew and Assyrian, and in the Phœnician, Arabic, and Ethiopic languages, will be given from time to time, according to the demands of the students.

Patristic Greek, especially the sub-Apostolic literature, Dr. Barton. ***Biblical Literature.***
Twice weekly throughout the year.

This course will presuppose a knowledge of classical Greek. Its object is two-fold; first, to gather patristic material for New Testament criticism; and, secondly, to gain a view of the history of the early Christian Church. The reading is selected from Clement of Rome, Ignatius, Polycarp, the Epistle of Barnabas, the Epistle to Diognetus, and the Shepherd of Hermas. It is accompanied by outline lectures on the history of the early Church, a discussion of the critical questions connected with the authors read, and an introduction to the works of the principal Fathers down to Chrysostom and Augustine. This course will alternate with one of the Semitic courses.

History of Israel from the Judges to the Fall of Jerusalem, with a sketch of the Life of Christ and of the Apostolic Age, Dr. Barton.

Twice weekly throughout the year.

The purpose of this course is to give as clear an account as possible of the political and social history of the period mentioned, and to gain a view of the historical setting of primitive Christianity. The time covered by the course includes the really interesting portions of Israel's life, the formative period of the Judges, the rise of the monarchy, the disruption of the state, the internal feuds and the relations to foreign powers, the political activity of the prophets, the Assyrian and the Babylonian captivities, the return from Babylon, the formation under Ezra and Nehemiah of a theocratic state, the Maccabæan and Herodian periods, the beginnings of Christianity, and the taking of Jerusalem by the Romans. The revised version of the Bible will be used as a text-book. The instruction will be given by lectures, supplemented by parallel readings in Josephus and in modern works on Jewish history. The lectures will be illustrated by contemporaneous archæological remains.

History and progress of religious ideas in Israel, including a survey of the New Testament religious ideas, Dr. Barton. *Twice weekly throughout the year.*

In this course the history of the Hebrew religion is traced from the earliest known period down to the rise of Christianity; a study is made of the fundamental institutions of the Semitic religion, and of their relation to Christianity. The principal topics of the course are: the idea of God, including the development of monotheism and the New Testament doctrine of the Trinity; subordinate supernatural beings; the moral-religious constitution of man; ethical ideas and practices; the religious functions of priests and prophets; the passage of the nation into a church; the expectation of a national deliverer, including the New Testament teaching as to eschatology, and the parousia. The instruction will be given by lectures, and topics will be assigned for special study.

The Cuneiform Inscriptions and the Old Testament, Dr. Barton.

Once weekly throughout the year.

This course is given largely by lectures, in which the following topics are treated:— a sketch of the history of the Babylonian-Assyrian peoples, based on their own records; a brief study of the every-day life of the people as revealed in their commercial documents; the literature and art of Assyria and Babylon, and lastly, the numerous points at which the cuneiform inscriptions touch Israelitish thought and history are discussed and compared with the corresponding Old Testament passages.

History of the Spanish and Bagdad Califates, Dr. Barton.

Once weekly throughout the year.

This course is intended to give a general view of the Arabian-Moslem civilisation. There is a short preliminary sketch of the rise of Islam and the Califates of Medina and Damascus, then the Moslem rule in Spain and the fortunes of the Bagdad Califate are reviewed, and lastly the organisation of the government and courts of law, land tenure and taxes, religion, literature, art, the Moslem study of Greek philosophy and the introduction of Moslem philosophy through the Jews into Christian Europe. The attention of the student is directed to the relation between Moslem and Christian ideas, institutions and history.

Seminary, Dr. Barton. *Once fortnightly throughout the year.*

Twice in every month a Seminary is held at which a paper on some topic in Biblical or Semitic study will be read by the instructor or by one of the students, and discussed by the members of the Seminary. A general topic is selected for each semester. The topics for 1892–93 are "Pentateuchal Analysis" and "The Apostolic Fathers."

NOTE.—For an introductory course on the origin and contents of the books of the Bible see page 74, and for a course in New Testament texts see page 53.

History and Political Science.

Professors and instructors: Mr. Franklin H. Giddings, Dr. Charles McLean Andrews.

History.

The instruction in history is under the direction of Dr. Charles M. Andrews, Associate in History.

The object of the courses in history is three-fold. Primarily, history is taught for its own sake as a record of the development of humanity, secondarily as a necessary accompaniment of the study of political institutions, and finally as a framework for other forms of research, linguistic, religious, or archæological. The course is planned to develop in the students a readier historical imagination, a critical sense and a consciousness of historical growth, rather than to give them a mere outline of general history. The instruction consists mainly of lectures, which are designed to create an interest in and a truer conception of the broad lines of historical development, while constant references are given for private reading, to stimulate accuracy in detail and independence in judgment.

First Year.

(*Minor Course.*)

1st Semester.

Ancient History to the Rise of Macedon, Dr. Andrews. *Five times weekly.* ***Major Course.***

The institutions and civilisation of Egypt, Chaldea, Palestine, Babylon, Assyria, Phœnicia, Persia and Greece are briefly outlined, and the results of recent archæological investigation carefully examined. The object of the course is, primarily, to aid the student to understand the ancient civilisation itself; secondarily, to make clear the relations of early Greece to the East; what she owed to Oriental influence, and what she has contributed in politics, art, letters, and philosophy to later civilisation.

2nd Semester.

Ancient History from the beginning of Rome to the later days of the Empire, Dr. Andrews. *Five times weekly.*

This course is a continuation of the last. In general, the aim is to trace the expansion of the early Roman community, and in this connection, Livy's narrative is briefly examined; the growth of custom into law and its later modification; the equalisation of the Orders; the struggle with Carthage; the agrarian troubles; the overthrow of the Republic and the rise and decline of the Empire. In their proper place will be taken up the growth and extension of the Macedonian Empire, its relations with Rome, and the important character of the Achæan and Ætolian leagues in the final struggle of Greece with Rome.

Second Year.

(*Minor Course.*)

1st Semester.

The History of Mediæval Europe to the Period of the Renaissance, Dr. Andrews. *Five times weekly.*

This course may be taken independently as the required year in Modern History; it may also be regarded as a continuation of the work of the first year. The design is to trace the fall of Rome and the rise of new nationalities; the growth of Frankish power; the empire of Charles the Great; the gradual nationalisation of France and Germany; the growth and influence of the Church; the Feudal System, and the rise of French monarchy; the rapid extension of Mohammedanism and its points of contact with Europe; the struggle between the Papacy and the Holy Roman Empire; the scope and results of the crusading movement.

2nd Semester.

From the Period of the Renaissance to the Eighteenth Century, Dr. Andrews. *Five times weekly.*

The lectures trace the growth of the humanities and the phases of religious change; the broadening of knowledge in letters, geography and science; the extension of commerce and the struggle for privileges and constitutional liberty; the weakening of the Papacy and the failure of the Holy Roman Empire; the spirit of Reformation and the counter measures; the war in the Netherlands; the Thirty Years' War; the territorial expansion of France and the rise of French absolutism. The course is planned as a preparation for the study of political, social, and economic movements of the nineteenth century.

Group: History with Political Science.

POST-MAJOR COURSE.

Post Major Course.

Nineteenth Century History, Dr. Andrews. *Twice weekly throughout the year.*

The work is confined to the political history of continental Europe; the lectures trace the political changes which have taken place in France, Italy, Germany, Russia and Turkey, chiefly since 1789.

This course is offered to graduate students and to undergraduate students who have completed the major course in History. The course will vary from year to year so as to allow for continuous graduate work during a period of three years. For the year 1892–93, Seminary work is offered in Nineteenth Century History (mainly continental), *two hours weekly.* In 1893–94 the course will be English and American Constitutional History (lecture course), *two hours weekly.*

GRADUATE COURSES.

Graduate Courses.

Two courses are offered to graduate students in History in addition to direction in private reading and original research.

Historical Definition, Method and Criticism, Dr. Andrews. *Once weekly throughout the year.*

The character of this course is that of an informal lecture and discussion. The treatment is, therefore, rather suggestive than exhaustive. The topics discussed are the definitions, divisions and limits of History; the different classes of historical writing; the sources of History, direct and indirect, and the methods employed in treating such sources; the theories of History and its place among the sciences; the arguments for and against a philosophy and a science of History; historical criticism, including the different kinds of evidence and their treatment, argument, critical analysis, the inductive process, aids to evidence, geography, chronology, etc.

History of the Roman Law, Dr. Andrews. *Once weekly throughout the year.*

Law is studied from an historical rather than from a purely legal point of view. The object is rather to observe the steps by which custom and rules of conduct took on legal form; to examine the character of the early family law and its extension beyond the family; the nature of the early constitution of Rome; the Servian reforms; the Twelve Tables; the ancient forms of procedure; the struggle between the Patricians and Plebeians, and their gradual equalisation; the effects of the struggle upon the law;

the Prætorian legislation, the Jus gentium, Jus naturale, the influence of the Stoic philosophy, and the Christian religion; the period of the great lawyers and the attempts at codification; final codification by Justinian and the later influence through the barbarian tribes, the Church and the universities. A knowledge of Latin is indispensable for this work.

Political Science.

The instruction in Political Science is under the direction of Mr. Franklin H. Giddings, Professor of Political Science.

The objects of the courses in political science are, first, to cultivate a scientific habit of thought in regard to all social phenomena whatsoever; and secondly, to lay a basis of sound knowledge for an intelligent interest in public affairs, and for original work or professional studies in economics, law, administration or philosophical sociology. To this end instruction is offered in political economy, including economic history; in the evolution of political institutions, including public law and administration, and in modern theories of sociology. Minor, major and post-major, and graduate courses are given each year. The major and post-major courses are combined, the major lectures of any year being different in subject and treatment from those of the year before, so permitting students that desire it to take post-major work by following the major course for two successive years. The lectures are accompanied by constant class work, and by seminary exercises. Private reading is assigned, with the aim of developing independent thinking and research.

First Year.

(*Minor Course.*)

1st Semester.

Political Economy, Mr. Giddings. *Five times weekly.* ***Major Course.***

This is a fundamental course, including a drill in the principles of the classical English Political Economy as the indispensable basis of further study. It is illustrated by the facts of economic history, including the manorial community of the Middle Ages, follows the growth of industry and commerce, analyses the industrial revolution, 1760–1846, and reviews the economic developments of recent times.

2nd Semester.

Political Institutions, Mr. Giddings. *Five times weekly.*

The aim of this course is to show how political institutions of every description, the world over, have been evolved from a few primary forms. Their development is traced from simple beginnings in tribal society through various transformations, monarchical, oligarchical and democratic, to their complicated forms in modern nations. The theory of legal rights and duties is presented, important definitions are given, and the fundamental principles of Continental, English, and American constitutional law are studied. The course concludes with lectures on methods of administration.

SECOND YEAR, 1892-93.

(*Major Course.*)

(*The lectures of this course are given in alternate years.*)

1st Semester.

Advanced Political Economy, Mr. Giddings. *Five times weekly.*

The special subjects are, Money, Bimetallism, and the Tariff History of the United States, Public Debts, Taxation, and Municipal Economy.

2nd Semester.

International Law, Mr. Giddings. *Five times weekly.*

SECOND YEAR, 1893-94.

(*Major Course.*)

(*The lectures of this course are given in alternate years. The course, with some changes, will be given again in 1895-96.*)

1st Semester.

Advanced Political Economy, Mr. Giddings. *Five times weekly.*

The special subjects taken up in this course are, the Labor Question, the Land Question, Socialism, and the relations of the State to property, industry, and the poor.

2nd Semester.

Political Theories, Mr. Giddings. *Five times weekly.*

The leading political theories from Aristotle to Hegel, Mill, and Spencer are critically reviewed.

Group: Political Science with History.

Graduate Courses.

The advanced work in Political Science comprises two courses, namely, one in Political Economy, and one in Sociology.

GRADUATE COURSES.

Two Graduate Courses are given each year.

Political Economy, Mr. Giddings. *Once weekly throughout the year.*

This is a course of advanced theory and method, designed especially for Fellows and graduate students that look forward to original work or teaching. Particular attention is given to recent theoretical work. A reading knowledge of French and German is indispensable.

Sociology, Mr. Giddings. *Once weekly throughout the year.*

A course of thirty lectures will be given on General Sociology. The various attempts that have been made to construct a philosophical science of society as an organic whole will be examined, and the field of sociology, as a study distinct from history, politics, and economics, will be defined. The causes and laws of social change will be sought, and the lectures will then lead up to the problem of progress, its conditions and limits. The different types of progressive and unprogressive societies will be studied comparatively. Statistical methods will be employed to show the reactions of civilisation that take such forms as insanity, suicide, crime, pauperism, and changes in birth-rates and death-rates. Fellows and graduate students expecting to do advanced work in this course must have, besides their equipment in history and political economy, a general knowledge of the history of philosophy, and some acquaintance with the literature of modern biology and empirical psychology. A reading knowledge of French and German is requisite.

Philosophy.

The course in Philosophy, five hours weekly throughout one year, is required of all candidates for a degree, and is educational rather than technical in its aims. An effort will be made to assist the students in co-ordinating the knowledge gained in other courses of study, and in acquiring a sufficient acquaintance with the method and vocabulary of speculative thought to read philosophic books intelligently.

The instruction in Logic, Psychology and the history of Philosophy is under the charge of Mr. Sidney E. Mezes. It is a consecutive course of instruction, and extends over three hours a week through the year.

In 1893–94, full graduate and undergraduate courses in Philosophy will be organised by Mr. Dickinson Sergeant Miller, Associate (elect) in Philosophy, who will also direct the philosophical reading of graduate students that intend to offer an examination in philosophy for the degree of Doctor of Philosophy. Such students will be required to make themselves familiar with the ground covered by the undergraduate lectures in philosophy, to do all the private reading assigned in connection with the lectures, and in addition to acquaint themselves in detail with the works of some philosophical writer.

In the required course in Philosophy, President Rhoads lectures twice weekly on Christian Ethics, throughout the first semester, and Dr. George A. Barton, Associate in Biblical Study and Semitic Languages, lectures twice weekly on the Bible and Biblical Study, throughout the second semester.

Logic (Deductive and Inductive), Psychology, and History of Modern Philosophy, Mr. Mezes. *Three times weekly throughout the year.* ***Required Course.***

Instruction will be based, for the three subjects respectively, on Fowler's Logic, James' Briefer Psychology, and Fraser's "Selections from Berkeley" and Royce's "The Spirit of Modern Philosophy." Daily references will also be given to discussions by other authors of the topics treated. Such references are intended to give the students some personal acquaintance with the literature of the subjects, and to put before them different views on the same topic, thus preventing a too slavish following of their authorities, and provoking personal reaction. The sketch of the history of Modern Philosophy will necessarily be brief and incomplete. It will begin with a somewhat comprehensive consideration of Berkeley's system, and will supplement that by a brief treatment of the more critical and constructive doctrines advanced during the German movement, from Kant to Hegel. While the imparting of information will not be neglected, the primary aim of the course will be to assist students in acquiring capacity to deal with the philosophic aspect of practical problems.

Lectures on Christian Ethics, President Rhoads.
Twice weekly throughout the first semester.

In the first art of the course the lectures will treat of the theory of ethics, including an examination of the elements of man's personality as a moral being. The works of Porter, Calderwood, Janet, Martineau and others are referred to, and portions assigned to be read by the class. The applications of moral principles to duty are next considered, especially in the light of Christian ethics. Wayland, Dymond, Dörner and other writers that have treated particularly of duties, are used as books of reference. In the latter part of the course a brief review is given of the chief ethical systems, including some of the most recent.

Lectures on the Origin and Contents of the Books of the Bible, Dr. Barton. *Twice weekly throughout the second semester.*

Graduate Course.

Graduate Course.

Kant, Mr. Mezes. *Twice weekly throughout the year.*

The aim of this course is to give students with some philosophic training a critical knowledge, at first hand, of Kant's theoretical philosophy. Instruction will be based on a reading of selected passages from the "Kritik der Reinen Vernunft" in Adike's edition. Copious references will be given to Kant's precritical and later writings as well as to other authors dealing with the topics discussed in the "Kritik." Students will be expected to prepare papers, one each month at least, giving an exposition of some doctrine of the "Kritik," and comparing it critically with one or more references. These papers and the text will be discussed in the class. The lectures given by the instructor from time to time, will aim to show the place and importance of the different doctrines in the Kantian philosophy.

Art.

Courses in Sculpture and Architecture.

The instruction in the History of Art is under the direction of Dr. Agnes Mathilde Wergeland, Reader in the History of Art.

Dr. Wergeland will also direct the reading of graduate students that may wish to take the history of art as one of the secondary subjects required for the degree of Doctor of Philosophy.

Lectures on the History of Architecture, Dr. Wergeland. *Twice weekly throughout the year.*

These lectures will treat of the Greek temple and dwelling-house, Roman buildings, the Christian basilica, and the mediæval cathedral.

Lectures on Greek and Roman Sculpture, Dr. Wergeland. *Once weekly throughout the year.*

Mathematics.

The instruction in Mathematics is under the direction of Dr. Charlotte A. Scott, Professor of Mathematics, and Mr. James Harkness, Associate in Mathematics.

The Major Course is a course in pure mathematics, and in the two years the students will be able to gain a fair knowledge of the principal pure mathematical subjects. It is not proposed to include the applications of mathematics to physics, though

courses in dynamics may be arranged from time to time when wanted. The points of contact of mathematics with other branches of mental and physical science will be indicated as far as possible throughout the course, special attention being paid to the nature of mathematical reasoning, and to the true relation and mutual dependence of mathematics and physics, in order that students may obtain just ideas of the scope and province of mathematics. The course of lectures on the history of mathematics in the second year is intended to give an outline of the development of the subject from its beginning to 1700 A.D.

Preparatory Course.

A Preparatory Course of five hours weekly throughout one semester is designed for students entering the college without a sufficient knowledge of those mathematical subjects that are optional in the entrance examination; the lectures will be adapted each year to the requirements of students taking the course; they will, generally speaking, include solid geometry and trigonometry.

Major Course.

FIRST YEAR.

(*Minor Course.*)

1st Semester.

Analytical Conics, Dr. Scott. *Five times weekly.*

2nd Semester.

First Half.—Algebra, advanced Trigonometry and Theory of Equations, Mr. Harkness. *Five times weekly.*

Second Half.—Elementary Differential and Integral Calculus, Mr. Harkness. *Five times weekly.*

SECOND YEAR.

(*Major Course.*)

1st Semester.

Differential and Integral Calculus, Differential Equations, Mr. Harkness. *Five times weekly.*

2nd Semester.

Curve Tracing, Analytical Geometry of Three Dimensions, Dr. Scott. *Four times weekly.*

History of Mathematics (about sixteen lectures), Dr. Scott. *Once weekly.*

Group: Mathematics with Physics, or Mathematics with Greek or Latin.

Post Major Courses.

POST-MAJOR COURSES.

The Post-Major Courses in Mathematics are designed to bridge over the interval between the ordinary undergraduate studies and advanced work. They deal, therefore, with the subjects of the major course, carried to higher developments and treated by higher methods. As the order of mathemetical studies differs in different colleges, graduate students will frequently find it advisable to devote a part of their time

to these courses. Regular written work is expected from all mathematical students, and a reading knowledge of French and German is presupposed.

The post-major courses in any one year amount to four or five hours weekly. The courses given are the following, with occasional modifications :—

I. (*a.*) Lectures Introductory to Modern Analytical Geometry, in connection with Salmon's Conic Sections ;

or, I. (*b.*) Lectures on Modern Geometry, in connection with Chasles, Géométrie Supérieure, and with Reye, Geometrie der Lage, Dr. Scott.

II. (*a.*) Lectures Introductory to Modern Algebra and the Theory of Functions, in connection with Chrystal's Algebra, Vol. II. ;

or, II. (*b.*) Lectures on Differential Equations, with an Introduction to the Theory of Functions, in connection with Forsyth's Differential Equations, and Jordan, Cours d'Analyse, Mr. Harkness.

The courses offered in the present year (1892–93) are :—

I. (*a.*) *Three times weekly* through the first semester ; *twice weekly* through the second semester, Dr. Scott ;

II. (*b.*) *Twice weekly* throughout the year, Mr. Harkness.

Graduate Courses.

Graduate Courses. The Graduate Courses consist of lectures and seminary work, supplemented by private reading under the direction of the instructors, the courses being arranged each year with reference to the wishes and degree of preparation of the students concerned. For the year 1892–93 there are two courses offered :—

Advanced Analytical Geometry, Dr. Scott. *Twice weekly throughout the year.*

This course is given as a continuation of I. (*a*), and therefore assumes a thorough knowledge of homogeneous point and line co-ordinates, and a considerable degree of readiness in curve-tracing. The lectures have reference to Salmon's Higher Plane Curves ; but they include an extensive discussion of the Analysis of Higher Singularities, with reference to papers by Cayley, H. J. Smith, Halphen, Brill and Noether, etc. Not much use is made of the Theory of Algebraic Forms, the subject being treated as essentially geometric ; but some account of this, based on Clebsch, Vorlesungen über Geometrie, may be given in connection with Cubics. The study of Quartics will then be taken up, to be followed by that of Transformation and Correspondence, which will probably be continued next year (1893–94).

Abelian Integrals and Functions, Mr. Harkness.

Twice weekly throughout the year.

This course is given as a continuation of II. (*b.*) It presupposes an acquaintance with the chief results of the theory of Functions of a complex variable. The text-book used in the course is that of Clebsch and Gordan, but the method of these authors are replaced, in many cases, by those of Riemann. A detailed account is given of the existence theorems of Schwarz, Neumann, and Harnack ; and attention is called to the application of these theorems to the Potential theory. Among the subjects to be taken up during the year are Abel's Theorem, Irrational Transformations of Curves, the Riemann-Roch Theorem, Multiple Theta-functions, and the Inversion Problem ; and some lectures will be given on Weierstrass's Methods, in connection with Hyperelliptic functions. The object of the course is to prepare the student for a study of recent Memoirs by Klein in the "Mathematische Annalen."

While there is, as yet, no separate department of Mathematical Physics, the Instructors in Mathematics and Physics will give all necessary direction and assistance to students whose preparation for the degree of Ph.D. involves work in this subject.

Science.

Physics, Chemistry, Biology.

Professors and instructors: Dr. Edward H. Keiser, Dr. Thomas Hunt Morgan, Dr. Joseph W. Warren, Mr. Arthur Stanley Mackenzie, Dr. Horace C. Richards, Dr. Harriet Randolph, Dr. Elmer P. Kohler, Dr. Ida A. Keller.

In January, 1893, the Trustees opened Dalton Hall, a large building, containing ample laboratories, lecture-rooms, research-rooms, special libraries, and professors' rooms for the work of the scientific departments. A plan of the new building accompanies the present program. The chemical, biological, and physical laboratories are open for students throughout the day.

The attention of the graduates of medical colleges and of undergraduate and graduate students intending to take the degree of Doctor of Medicine is called to the facilities offered by the laboratories, and to the recent resolutions of the Trustees of the Johns Hopkins University in regard to the admission of students to the Medical School of that University, which will open in the autumn of 1893, and to which women will be admitted on the same terms as men.*

The value of a practical knowledge of biology and chemistry as

*RESOLUTIONS ADOPTED BY THE BOARD OF TRUSTEES OF THE JOHNS HOPKINS UNIVERSITY, ON FEB. 6TH, 1893.

"A course of four years' instruction will be provided leading to the degree of Doctor of Medicine.

To this course there will be admitted as Candidates for the degree:

1. Those who have satisfactorily completed the Chemical-Biological Course which leads to the A.B. degree in this University.

2. Graduates of approved Colleges or Scientific Schools who can furnish evidence: (*a*) That they have a good reading knowledge of French and German; (*b*) That they have such knowledge of Physics, Chemistry, and Biology as is imparted by the regular Minor Courses* given in these subjects in this University.

3. Those who give evidence by examination that they possess the general education implied by a degree in arts or in science from an approved college or scientific school and the knowledge of French, German, Physics, Chemistry, and Biology already indicated.

* By a Minor Course is understood one that requires one year for its completion. In the languages, the course involves five class-room exercises a week; in Physics, five class-room exercises and three hours a week in the laboratory; and in Chemistry and Biology, five class-room exercises and five hours a week in the laboratory in each subject."

preliminary or accessory to the professional study of medicine is generally recognised. Through the courtesy of the Woman's Medical College of Pennsylvania, and the Woman's Medical College of the New York Infirmary, allowance will be made in their professional courses for work carried on at Bryn Mawr in the scientific laboratories. Students of Bryn Mawr College that have completed major courses in chemistry and biology will be released from the first year's, or primary, examination in these colleges, and from laboratory practice in chemistry and biology. The courses of Bryn Mawr College in chemistry, biology, and physics correspond to those of the Johns Hopkins University, and it will be easy for the student entering college without offering the advanced requirements for matriculation to complete in three years a course corresponding to the entire Preliminary Medical Course of the Johns Hopkins University, including the requirements for matriculation as prescribed by the University. Every effort will be made to enable students of medicine to complete the studies necessary to their purposes in the shortest possible time.

Physics.

The instruction in Physics is under the direction of Mr. Arthur Stanley Mackenzie, Associate in Physics, and Dr. Horace C. Richards, Instructor in Physics.

The course extends through two years, but in the first year an elementary treatment of all the subjects is given, making a course complete in itself. Lodge's Mechanics and Thompson's Lessons in Electricity and Magnetism are used in connection with the work of the first semester. In the second semester, Stewart's Treatise on Heat forms the basis of work in Heat. The other subjects are given wholly by lectures.

For the first year's course a knowledge of the elements of trigonometry is required. No knowledge of physics is presupposed.

In the second year use is made of differential and integral calculus. Special arrangements will be made by the instructors in the mathematical department to meet the case of students wishing to take this second year's course in physics without electing mathematics as a group.

FIRST YEAR.

(*Minor Course.*)

1st Semester.

Mechanics and Electricity, Mr. Mackenzie. *Five times weekly.* **Major Course.**

Laboratory work. *Four hours weekly.*

2nd Semester.

Sound, Heat and Light, Mr. Mackenzie. *Five times weekly.*

Laboratory work. *Four hours weekly.*

In the laboratory, the students are first instructed in the methods of accurate measurement of the simple quantities, length, time and weight, and in the laws governing the equilibrium and motion of bodies; later, they make determinations of electrical quantities, potential, resistance, capacity, etc.; and problems in heat, sound and light are studied and discussed.

The object of the work is to familiarise the students with the instruments and methods used in physical measurements, with special reference to the quantitative laws upon which the science is based. The laboratory is equipped with this object in view, and the apparatus is all of the most modern design.

Among recent additions should be mentioned a small dynamo and steam-engine, an electro-dynamometer, a cathetometer with two telescopes, made by the Geneva Society for the Construction of Physical Apparatus, and a Rowland diffraction grating.

SECOND YEAR.

Lectures, Mr. Mackenzie. *Five hours weekly throughout the year.*

The course is given entirely by lectures; the text-books mentioned below indicate the character of the ground covered, and form the basis of the lectures. An endeavor is made to bring the students into contact with the work of original investigators.

Heat (Maxwell's "Theory of Heat"). Dynamics (Selections from Tait and Steele's "Dynamics of a Particle," and special lectures dealing with the application of dynamics to physical problems). Electricity and Magnetism (Emtage's "Electricity and Magnetism," Maxwell's "Elementary Treatise on Electricity"). Optics, Physical and Geometrical (Preston's "Theory of Light," parts of Heath's "Geometrical Optics"). Sound (Selections from Helmholtz's "Tonempfindungen.").

Laboratory work. *Five hours weekly throughout the year.*

The laboratory work of the second year is designed to follow upon and illustrate the subject-matter of the lectures. The student is taught the use of accurate instruments and the methods of physical investigation. Special study is made of the sources and amounts of the errors involved in the different operations, and the problems assigned are adapted as far as possible to the requirements and wishes of the individual students.

Group: Physics with Mathematics; Physics with Chemistry; or Physics with Biology.

GRADUATE COURSES.

Graduate Courses.

The advanced work in physics will consist of exercises intended to give the student a knowledge of physical methods and operations. There will be lectures from time to time upon selected topics. The courses for graduate students will be varied from year to year so as to form a consecutive course for students that wish to make Physics one of the chief subjects in the examination for the degree of Doctor of Philosophy.

Mr. Mackenzie offers for 1893–94 :—

Theory of Electricity and Magnetism. *Twice weekly throughout the year.*

This course will be given by lectures, supplemented on the part of the students by the reading of assigned articles, and will be based on Maxwell's standard treatise. Special attention will be given to the electromagnetic theory and its late developments. Students wishing to take this course must satisfy the lecturer that they have a sufficient knowledge of mathematics to follow the course with advantage. Students will also be expected to read papers on assigned topics in the Seminary meetings, and to make reports on articles appearing in current physical journals.

In the two following years will be offered Thermodynamic and Heat Conduction and Optics and Sound, so as to form three consecutive years of graduate study leading to the degree of Doctor of Philosophy.

Students who have completed the minor and major undergraduate courses may offer parts of this advanced course as a post-major, by the permission of the instructor.

The laboratory work will be arranged to bring the student into contact with the methods of research, and for that purpose she will begin by repeating methods and investigations of well-known experimenters, with any modifications that may be suggested; then pass on to points of investigation left untouched by previous experimenters, and finally to the study of new methods and the prosecution of original research. Students taking Physics as their chief subject for the degree of Doctor of Philosophy will be expected to spend all the time possible at work in the laboratory. The new laboratory is provided with special rooms for magnetic, optical, and electrical work, and in the basement is a constant-temperature vault designed for accurate comparison of lengths, etc. The stock of apparatus is being added to yearly.

Chemistry.

The instruction in Chemistry is under the direction of Dr. Edward H. Keiser, Professor of Chemistry, and Dr. Elmer P. Kohler, Associate in Chemistry.

The courses in chemistry consist of five hours of lectures, or their equivalent, and five and one-half hours of laboratory work a week throughout each year. The first year's work, or Minor Course, forms a general introduction to chemical science. In the second year, or Major Course, a more detailed study is made of both organic and inorganic chemistry.

Major Course.

FIRST YEAR.
(*Minor Course.*)

1st Semester.

Introduction to General Chemistry (Lectures), Dr. Keiser. *Three times weekly.*

Reviews, Dr. Kohler. *Twice weekly.*

Laboratory work. *Five and one-half hours weekly.*

The lectures of the first semester are a general introduction to chemistry. The more important properties of the elements and their compounds are considered, and a thorough study is made of the facts upon which the general laws of chemical action are based. The lectures are illustrated by a series of experiments.

The laboratory is open for first year students five and one-half hours weekly. The laboratory work begins with a series of exercises in manipulation, and in the more frequently occurring chemical operations. The students are taught the use of accurate measuring and weighing apparatus, and are made familiar with the calculations em-

ployed in quantitative work. Analysis is taught only incidentally, and not as the chief object of the science. While studying the more important properties of the elements and their compounds, considerable attention is devoted to a study of the quantitative relations of the substances with which the students work.

2nd Semester.

General Chemistry (Lectures), Dr. Keiser. *Three times weekly.*

Reviews, Dr. Kohler. *Twice weekly.*

Laboratory work. *Five and one-half hours weekly.*

The lectures and exercises during the second semester are a continuation of the work of the first semester. A thorough study is made of the characters of chemical substances, and the principles of classification are explained. The laboratory work consists of a systematic study of the properties and behavior of the more important elements and compounds, and of a repetition of the more instructive experiments that have been previously performed in the lecture room.

SECOND YEAR.

(*Major Course.*)

1st Semester.

Lectures on Organic Chemistry, Dr. Keiser. *Twice weekly.*

Lectures on Theoretical Chemistry, Dr. Keiser. *Once weekly.*

Lectures on Inorganic Chemistry, Dr. Kohler. *Twice weekly.*

Laboratory work. *Five and one-half hours weekly.*

In the lectures on organic chemistry typical compounds are studied in detail; the general relations existing between classes of compounds, as well as the methods of transforming one class into another, are discussed. In these lectures the experimental processes and the reasoning employed in determining constitutional or structural formulas are considered, and an effort is made to trace out the influence which organic investigations have had in developing the general theories of the science, and in enlarging our conceptions of the ultimate constitution of matter. The lectures on inorganic chemistry consist of a detailed description of the properties of the elements and compounds, and include a discussion of analytical processes and methods.

The laboratory work is upon the subjects considered in the lectures; great care is taken to avoid a mere mechanical use of analytical tables, the student being encouraged to devise analytical methods without aid, using only the knowledge that she actually possesses.

2nd Semester.

Lectures on Organic Chemistry, Dr. Keiser. *Twice weekly.*

Lectures on Inorganic Chemistry and Qualitative and Quantitative Analysis, Dr. Kohler. *Three times weekly.*

Laboratory work. *Five and one-half hours weekly.*

The laboratory work is continued as in the first semester, the greater portion of the course being devoted to Analytical Chemistry and inorganic preparations. Towards the end of the semester, some of the typical carbon compounds are prepared and studied in the laboratory.

Group: Chemistry with Biology; or Chemistry with Physics.

GRADUATE COURSES.

Graduate Courses.

Advanced Chemistry, Dr. Keiser and Dr. Kohler.

This course consists of exercises intended to give the student a comprehensive knowledge of chemical methods and operations, and of difficult and typical preparations. There are

also lectures from time to time upon selected topics, and upon the more recent researches in organic and inorganic chemistry. The students make researches on assigned topics, and are required to become familiar with the literature bearing on their practical work. A knowledge of French and German is therefore necessary. The courses for graduate students are varied from year to year, so as to form a consecutive course for students that wish to make chemistry one of the chief subjects of the examination for the degree of Doctor of Philosophy.

Chemical Seminary, Dr. Keiser. *Once weekly.*

The advanced and graduate students meet one hour a week for the reading and discussion of important books and recent articles in the journals. The chief subject of Seminary work in 1891–92 was the History of Chemistry.

Biology.

The instruction in Biology is under the direction of Dr. Thomas Hunt Morgan, Associate Professor of Biology, Dr. Joseph W. Warren, Associate Professor of Physiology, Dr. Harriet Randolph, Demonstrator in Biology, and Dr. Ida A. Keller, Non-Resident Lecturer in Botany.

The undergraduate course in Biology may extend through one, two, or three years, and each year's work is equivalent to five hours of lectures or other class exercises and five and one-half hours' laboratory practice a week throughout each year. The work of the first year (minor course) forms a general introduction to the subject through a broad, comparative study of living things (General Biology). In the second year (major course) the foundation of a special knowledge of animal morphology and physiology is laid. The third year's work (post-major), which is offered only to students of marked aptitude, is devoted to advanced courses in special topics, to the study of current biological literature, and to the practical investigation of special problems. A knowledge of the elements of Chemistry and Physics is very desirable for students entering any course in Biology.

First Year.

(Minor Course.)

Major Course. *1st Semester.*

Lectures on General Biology, Dr. Morgan. *Five times weekly.*

Laboratory work. *Five and one-half hours weekly.*

2nd Semester

Lectures on General Biology, Dr. Warren. *Five times weekly till April.*

Lectures on the Embryology of the Chick, Dr. Warren. *Five times weekly during April.*

Physiological Botany, Dr. Keller. *Five times weekly throughout May.*

Laboratory work. *Five and one-half hours weekly.*

It is the object of this course to give the student clear conceptions of the fundamental principles of vital structure and action, the outlines of general classification, and the relations of the biological sciences to one another, and to other branches of science. The laboratory practice is designed to enable the student, as far as possible, to examine for herself the facts discussed in the lectures, to encourage the habit of exact observation, to train the eye and the hand, and to impart a knowledge of methods of practical work.

The general subject is treated in two courses which supplement each other and must be taken together. The course in the first semester deals especially with the lower forms of life, the relations of plants and animals, and the more general principles of the science. The course in the second semester is devoted more largely to the higher forms of animal life, with especial reference to physiology.

The work is designed not simply to teach the elements of zoology and botany, as commonly understood, but beyond this to consider plants and animals with constant reference to one another, both in their structure and their mode of action. Stress is therefore laid on the essential facts of comparative morphology and physiology (General Biology) as illustrated by the thorough study of a few types, rather than on the minutiæ of classification. At the same time, the work is arranged with reference to subsequent special work in zoology, botany and physiology.

This necessarily involves an accurate study of vital phenomena in detail, which alone can form the groundwork of any real discipline in the science. The student is, however, led as far as possible to regard facts as illustrations of more general biological truths, and to estimate the importance of these truths beyond the immediate field of the specialist.

In the first semester the student examines a number of animals and plants, so arranged as to form a natural and progressive introduction to the general principles of Biology. After certain general preliminary studies on familiar and highly organised forms, the student makes a detailed examination of unicellular organisms, and from them proceeds gradually to the complex conditions of structure and function found in higher plants and animals. In the second semester attention is given mainly to the biology of the higher animals. The course ends with a thorough study of the embryology of the chick.

The lectures on Physiological Botany will be accompanied by five and one-half hours of laboratory work weekly, which will include field excursions.

Second Year.

1st Semester.

Physiology and Histology, Dr. Warren. *Five times weekly.*

Laboratory work. *Five and one-half hours weekly.*

A knowledge of scientific physiology is here conveyed by a detailed account of the microscopic structure and the mode of working of the higher animal organisms. The application of this knowledge to Hygiene, Medicine, and Psychology is indicated.

The chief organs and tissues of the vertebrate body are examined with the microscope, and much practice in the preparation of histological specimens is obtained. The laboratory is equipped with a stock of physiological apparatus, and the fundamental facts of physiology and the methods of physiological inquiry are learned by means of demonstrations and experiments by the students.

2nd Semester.

General Zoology, Dr. Morgan and Dr. Warren.
Five times weekly till Easter, and three times weekly after Easter.

Laboratory work. *Five and one-half hours weekly.*

The course in General Zoology extends the work of the first year so as to include a comprehensive survey of the phenomena of animal life, and comprises a systematic presentation of the more important facts of general morphology, with especial reference to the relation-

ships and classification of animals. The course in Vertebrate Zoology treated from the point of view of Comparative Anatomy is devoted to the morphology of vertebrates, and is designed to serve as a study of vertebrate homologies. In the laboratory thorough dissections are made of typical forms, illustrating the leading groups of animals, and sufficient work is required in systematic zoology to teach the student how to name and classify animals, and to learn the relations between species, genera, and the higher groups. Students looking forward to the study of medicine are recommended to devote especial attention to the anatomy of higher vertebrates and to human and comparative osteology; and for such students an alternative course in osteology is offered.

Theoretical Biology, Dr. Morgan. *Twice weekly after Easter.*

In this course the student is introduced to some of the leading questions of theoretical general biology. The first part of the course is devoted to the history of biological discovery, with especial reference to the development of the more important generalisations and theories of the science. The latter part is mainly occupied with a critical analysis of the theory of evolution and with discussions of the broader philosophical problems of biology, such as heredity, variation, adaptation, animal metamorphoses and kindred topics. These lectures vary somewhat from year to year, and are intended to be suggestive rather than exhaustive in character.

Group: Biology with Chemistry ; Biology with Physics.

Post Major Courses.

Post Major Courses.

To students that have completed the first and second years of Biology, post-major courses are offered as follows :—

Morphology, Dr. Morgan. *Once weekly throughout the year.*

A course of lectures on the Embryology of the Vertebrates.

The more important embryological problems will be discussed in connection with these lectures. An attempt will be made to present such fundamental questions as gastrulation, acquisition and loss of food-yolk, concrescence, etc., and the evidence given by the ontogeny of vertebrates towards the solution of phylogenetic problems will be examined.

General Zoology, Dr. Morgan. *Once weekly throughout the year.*

A course of lectures or recitations accompanied by demonstrations and laboratory work. The course is intended to cover the ground of such text-books as Hertwig's Lehrbuch, or Lang's Vergleichende Anatomie. In connection with the work a few of the important monographs of the large groups will be studied.

Advanced Physiology, Dr. Warren. *Once weekly throughout the year.*

The topics to be selected will depend upon the previous training of the students, and as far as possible the preferences of the student will be consulted. Occasional conferences will be held for the discussion of essays prepared by the students and presenting the more important evidence concerning the fundamental problems of physiology. By this means it is hoped to familiarise the student with the literature and with the methods of investigation.

Lectures and Recitations on the Structure and Functions of the Central Nervous System, Dr. Warren. *Once weekly throughout the year.*

Laboratory work.

It is desirable that as much laboratory work as possible should be done in connection with the courses offered above. Some special problem, moreover, will be assigned to each student. At the end of the year the results of the work will be presented in writing.

Graduate Courses.

Graduate Courses.

The advanced courses will be varied from year to year, so as to form a consecutive course for students that wish to make biology one of the chief subjects of the examination for the Degree of Doctor of Philosophy. Such students may specialise either in animal morphology under the guidance of Dr. Morgan, or in animal physiology under the guidance of Dr. Warren.

Advanced Biology, Dr. Morgan. *Once fortnightly throughout the year.*

A course of advanced lectures on : *a*. Theories of Metamerism ; *b*. Ancestry of the Chordata.

Physiological Optics, Dr. Warren. *Once weekly throughout the year.*

The Use of the Graphic Method in Physiology, Dr. Warren. *Once weekly throughout the year.*

Journal Club.

The advanced students will meet for one hour fortnightly for the presentation and discussion of current biological literature.

Reading Club.

It is desired that the advanced students shall meet for one hour every week, alternating with the Journal Club, for the reading and discussion of some important topic chosen for the year.

Physical Culture.

The health of the students is under the care of Miss McNair, Director of the Gymnasium, and Dr. Ida Richardson, a physician practicing in Philadelphia, who visits the college every week, and can then be consulted by all the students free of charge.

There is on the grounds, separated from the other buildings, a college infirmary or hospital with accommodation for patients and nurses, and its own kitchen and bath-rooms.

The gymnasium (see page 86) is open for the use of students from 9 A.M to 10 P.M. daily. Before admission to the gymnasium each student must be examined by the Director with reference to physical development, strength of heart and lungs, and hereditary tendencies. The exercises prescribed will be strictly individual, varying according to the physical development of the student ; their effect will be tested by half-yearly examinations, and great pains will be taken to prevent any over-exertion.

Opportunities for Public Worship.

It was the desire of the Founder that the college should be pervaded by a simple and practical Christianity, and an endeavor will be made to promote this end.

In the vicinity of the college there are churches of various denominations. Conveyances are supplied to enable students to attend the more distant places of worship, including the Friends' Meeting. There will be daily morning worship in the college.

COLLEGE BUILDINGS.

The college buildings are situated ten miles west of Philadelphia, on the Pennsylvania Railroad, a quarter of a mile from the Bryn Mawr Station ; the neighboring country is agreeable and very healthful, and towards the west there is a fine prospect of hills. The college grounds cover forty acres, and include lawns and tennis courts ; they are surrounded by private villas.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains the library, lecture-rooms and the offices of administration. In January, 1893, the scientific departments of the College were transferred to Dalton Hall, a new building erected by the Trustees out of funds in large part contributed by the generosity of friends of the College. Taylor Hall is now entirely occupied by the remaining academic departments and the library.

Around Taylor Hall it is the intention of the Trustees to erect halls for the accommodation of students. Plans and descriptions of Merion Hall, Radnor Hall, and Denbigh Hall, and plans of the academic buildings, Taylor Hall, and Dalton Hall are annexed to the present Program.

The Gymnasium is one of the most commodious yet provided for women. It contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather ; a room for the Director, to which is attached another for the examination and record of the physical development of the students, and bath-rooms for use after exercise. It is open to the students at all times. This gymnasium has been built in accordance with the system of Dr. Sargent ; it is furnished with his complete apparatus, and is under the charge of a Director who has completed his course of instruction.

Near the college is a Telegraph Office, Adams' Express Office, and United States Money Order Office. There are good roads in every direction. Riding horses and phaetons may be kept in a livery stable near the college, at a cost of twenty-five dollars a month.

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PROGRAM

BRYN MAWR COLLEGE.

1894.

PHILADELPHIA:
SHERMAN & CO., PRINTERS.
1894.

BRYN MAWR COLLEGE.

College Calendar.

1894.

JANUARY.

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The present academic year will close with the Conferring of Degrees by the Trustees at eleven o'clock, on June 7th, 1894.

There will be a winter recess from December 20th, at one o'clock, to

January 4th, at nine o'clock; and a spring recess from March 21st, at one o'clock, to March 29th, at nine o'clock.

The first semester will end February 2nd; half yearly examinations will be held during the last two weeks of the semester, from January 22nd to February 2nd.

The second semester will begin February 5th, at nine o'clock.

The lectures and class-work of the tenth academic year will begin October 2nd, 1894, at nine o'clock, and will close June 6th, 1895.

There will be a winter recess from December 19th, 1894, at one o'clock, to January 3rd, 1895, at nine o'clock; and a spring recess from April 9th, at one o'clock, to April 17th, at nine o'clock.

The first semester will end February 8th, 1895; half yearly examinations will be held during the last two weeks of the semester, January 28th to February 8th.

The second semester will begin February 11th, 1895, at nine o'clock.

Examinations for matriculation will be held during the week preceding the opening of each academic year, and also during the last week of each academic year. Examinations for matriculation will also be held during the last week of the first semester of each year, January 29th to February 2nd, 1894, and February 4th to February 8th, 1895, but only at Bryn Mawr College, and for those candidates only that intend to enter College at the half year.

June, 1894.		September, 1894.	
1.		24.	
English Grammar, etc.,	9½—11	*English Grammar, etc.*,	9½—11
English Composition,	11—1	*English Composition*,	11—1
Geometry,	2½—5	*Geometry*,	2½—5
2.		25.	
Algebra,	9—12	*Algebra*,	9—12
French,	2—5	*French*,	2—5
4.		26.	
Latin Composition,	9—10	*Latin Composition*,	9—10
Cæsar and Cicero,	10—12	*Cæsar and Cicero*,	10—12
Science,	2—4	*Science*,	2—4
5.		27.	
Vergil,	9—10½	*Vergil*,	9—10½
History,	11—1	*History*,	11—1
German,	2½—5½	*German*,	2½—5½
6.		28.	
Greek,	9—12	*Greek*,	9—12
Solid Geometry and Trigonometry,	2—5	*Solid Geometry and Trigonometry*,	2—5

June, 1895.		September, 1895.	
May 31.		23.	
English Grammar, etc.,	9½—11	*English Grammar, etc.,*	9½—11
English Composition,	11—1	*English Composition,*	11—1
Geometry,	2½—5	*Geometry,*	2½—5
June 1.		24.	
Algebra,	9—12	*Algebra,*	9—12
French,	2—5	*French,*	2—5
3.		25.	
Latin Composition,	9—10	*Latin Composition,*	9—10
Cæsar and Cicero,	10—12	*Cæsar and Cicero,*	10—12
Science,	2—4	*Science,*	2—4
4.		26.	
Vergil,	9—10½	*Vergil,*	9—10½
History,	11—1	*History,*	11—1
German,	2½—5½	*German,*	2½—5½
5.		27.	
Greek,	9—12	*Greek,*	9—12
Solid Geometry and Trigonometry,	2—5	*Solid Geometry and Trigonometry,*	2—5

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Edward Bettle, Jr., Philadelphia.
Howard Comfort, Philadelphia.

Academic Appointments.

James E. Rhoads, LL.D., *President of the College.*

M. Carey Thomas, Ph.D.,* *Dean of the Faculty and Professor of English.*

A.B., Cornell University, 1877; studied at the Johns Hopkins University, 1877–78; University of Leipsic, 1879–82; Ph.D., University of Zürich, 1882; Sorbonne and the Collège de France, 1883.

Charlotte Angas Scott, D.Sc., *Professor of Mathematics.*

Lincoln, England. Graduate in Honors, Girton College, University of Cambridge, England, 1880; B.Sc., University of London, 1882; Lecturer on Mathematics in Girton College, 1880–84; lectured in connection with Newnham College, University of Cambridge, England, 1880–83; D.Sc., University of London, 1885.

Edward Washburn Hopkins, Ph.D., *Professor of Greek, Sanskrit, and Comparative Philology.*

A.B., Columbia College, 1878; Fellow in Literature, Columbia College, 1878–81; University of Leipsic, 1878–81; University of Berlin, 1880; Ph.D., University of Leipsic, 1881; Sorbonne and the Collège de France, 1881; Assistant in Latin and Instructor in Zend, Columbia College, 1881–84.

Edward H. Keiser, Ph.D., *Professor of Chemistry.*

S.B., Swarthmore College, 1880; Assistant in Chemistry, Swarthmore College, 1880–81; S.M., Swarthmore College, 1881; Fellow in Chemistry, Johns Hopkins University, 1882–84; Ph.D., Johns Hopkins University, 1884; Student at the Royal School of Mines, Freiberg, Saxony, 1884; Assistant in Chemistry, Johns Hopkins University, 1884–85

Hermann Collitz, Ph.D., *Associate Professor of German, and Teutonic Philology.*

Bleckede, Hanover, Germany. University of Göttingen, 1875–78; University of Berlin, 1878–81; Ph.D., University of Göttingen, 1878; Privatdocent in the University of Halle, 1885–86.

James Harkness, A.M. (*Cambridge and London*), *Associate Professor of Mathematics.*

Derby, England. Major Scholar, Trinity College, Cambridge, 1882; Graduate in Honors (8th Wrangler) in the Cambridge Mathematical Tripos, 1885; Mathematical Exhibitioner, London University Intermediate Arts Examination, 1885; Mathematical Scholar, London University B.A. Examination, 1887.

Herbert Weir Smyth, Ph.D., *Professor of Greek.*

A.B., Swarthmore College, 1876, and Harvard University, 1878; University of Leipsic, 1879–81; University of Göttingen, 1881–83; Instructor in Classics and Sanskrit, Williams College, 1883–85; Ph.D., University of Göttingen, 1884; Fellow by Courtesy and Lecturer on Greek, Johns Hopkins University, 1885–87; Reader in Greek Literature, Johns Hopkins University, 1887–88.

Mary Gwinn, Ph.D., *Associate Professor of English.*

Studied at the University of Leipsic, 1879–82; University of Zürich, 1882; Sorbonne and the Collège de France, 1883; Fellow in English, Bryn Mawr College, 1885–87, and Student, 1887–88; Ph.D., Bryn Mawr College, 1888.

Franklin H. Giddings, A.M., *Professor of Political Science.*

A.B., Union College, 1877, and A.M., 1889.

Charles McLean Andrews, Ph.D., *Associate in History.*

A.B., Trinity College, 1884; Fellow in Johns Hopkins University 1888–89; Ph.D., Johns Hopkins University, 1889.

* President (elect), Academic Year 1894–95.

GONZALEZ LODGE, PH.D, *Associate in Latin.*

A.B., Johns Hopkins University, 1883; Graduate Scholar and Fellow, Johns Hopkins University, 1883-86; Ph.D., Johns Hopkins University, 1886; Professor of Greek, Davidson College, 1886-88; American School of Classical Studies, Athens, 1888-89; University of Bonn, 1889.

GEORGE A. BARTON, PH.D, *Associate in Biblical Literature and Semitic Languages.*

A.B., Haverford College, 1882, and A.M., 1885; A.M., Harvard University, 1890; Ph.D., Harvard University, 1891.

JOSEPH AUGUSTE FONTAINE, PH.D., *Associate Professor of Romance Languages.*

College of Sion, Nancy, France, 1879; Paris, 1880-81; Johns Hopkins University, 1882-86; Ph.D., Johns Hopkins University, 1886; Collège de France, Sorbonne, Ecole des Hautes Etudes, Ecole des Chartes, University of Bonn, 1886-87; Instructor, University of Nebraska, 1887-89; Professor of Modern Languages in the University of Mississippi, 1889-91.

ARTHUR STANLEY MACKENZIE, A.B., *Associate in Physics.*

A.B., Dalhousie University, 1885; Tutor in Mathematics, Dalhousie University, 1887-89; Fellow, Johns Hopkins University, 1890-91.

JAMES DOUGLAS BRUCE, PH. D., *Associate in Anglo Saxon.*

A.M., University of Virginia, 1883; University of Berlin, 1886-88; University of Strasburg, 1888; Johns Hopkins University, 1889-90; Professor of Modern Languages, Centre College, 1890-91; Ph.D., Johns Hopkins University, 1894.

THOMAS HUNT MORGAN, PH D., *Associate Professor of Biology.*

B.S., State College, Kentucky, 1886, and M. S. 1888; Graduate Scholar, John Hopkins University, 1888-89; Fellow in Biology, Johns Hopkins University, 1889-90; Ph D., Johns Hopkins University, 1890; Adam T. Bruce Fellow, Johns Hopkins University, 1890-91.

JOSEPH W. WARREN, M.D., *Associate Professor of Physiology.*

A.B., Harvard College, 1871; University of Berlin, 1871-72; University of Leipsic, 1872-73; University of Bonn, 1873-79; M.D., Bonn, 1880; Assistant and Instructor in Physiology, Harvard Medical School, 1881-91; Lecturer in Medical Department of the University of the City of New York, 1885-86; Lecturer in Physiology, University of Michigan, 1889.

WILLIAM CRANSTON LAWTON, A B., *Professor of Greek and Latin Literature.*

A.B., Harvard University, 1873; studied, University of Göttingen, 1876-77; Gradnate Student, Harvard University, 1879-80; Member of Archæological Expedition to Assos, 1881; studied, University of Berlin, 1882-83; Acting Professor of Greek, Boston University, 1890-91; Winkley Professor of Latin, Bowdoin College, 1891-92.

DICKINSON SERGEANT MILLER, PH.D., *Associate in Philosophy.*

University of Pennsylvania, 1885-88; Fellow in Philosophy, Clark University, 1889-90; Morgan Fellow, Harvard University, 1890-91; Walker Fellow, Harvard University, 1891-92; A.B. and A.M., Harvard University, 1892; University of Berlin, 1892-93; Ph.D., University of Halle, 1893.

ELMER P. KOHLER, PH.D., *Associate in Chemistry.*

A.B., Muhlenburg College, 1889; studied at Johns Hopkins University, 1889-92; Ph.D., Johns Hopkins University, 1892.

EDGAR BUCKINGHAM, PH. D., *Associate in Physics.*

A.B., Harvard University, 1887; Assistant in Physics, Harvard University, 1888-1889; Assistant in Physics, University of Strasburg, 1889-90; University of Leipsic, 1890-91; Assistant in Physics, Harvard University, 1891-92; Tyndal Scholar of Harvard University, University of Leipsic, 1892-93; Ph.D., University of Leipsic, 1893.

ROSE CHAMBERLIN, *Reader in German.*

Great Yarmouth, England. Graduate in Honors, Newnham College, University of Cambridge, England, 1886, (Mediæval and Modern Languages Tripos, First Class).

FREDERIC M. PAGE, *Reader in Romance Languages.*

Collège Chaptal, Paris; attended Studi Superiori, Florence; Instructor in Languages, University of Virginia, 1880-82; Acting Professor of Modern Languages and Literature, University of the South, 1882-83; Professor of Modern Languages and Literature, University of the Sonth, 1883-91.

ABBY KIRK, A B., *Reader in English.*

A.B., Bryn Mawr College, 1892

HARRIET RANDOLPH, PH.D., *Demonstrator in Biology and Reader in Botany.*

A.B., Bryn Mawr College, 1889; Fellow in Biology, Bryn Mawr College, 1889-90; University of Zürich, 1890-92; Ph.D., University of Zürich, 1892.

FLORENCE V. KEYS, A.B., *Reader in English.*

Toronto, Canada. A.B., University of Toronto, 1891; Fellow in Greek, Bryn Mawr College, 1891-92; Fellow in English, Bryn Mawr College, 1892-93.

ANNA DONALDSON MCNAIR, A.B., *Director of the Gymnasium.*

A.B., Antioch College, 1886; studied under Dr. Sargent, 1889-91.

MARY ELIZABETH BATES, *Assistant in the Gymnasium.*

Graduate of Boston Normal School of Gymnastics, 1893.

IDA RICHARDSON, M.D., *Physician of the College.*

FLORENCE E. PEIRCE, *Librarian.*

HENRIETTA R. PALMER, A.B., *Associate Librarian.*

School of Library Economy, Columbia College, 1887-89; Acting Librarian, Bryn Mawr College, 1890-91; A.B., Bryn Mawr College, 1893.

BESSIE BAKER, B.S., *Assistant Librarian.*

B.S., Purdue University, Lafayette, Indiana, 1886; studied in the New York City Library School, 1891-92.

JULIA COPE, A.B., *Secretary.*

FREDERICKA M. KERR, *Bursar.*

SUSAN GRIMES WALKER, A.B., and MADELINE VAUGHAN ABBOTT, A.B., *Secretaries to the Dean.*

Honorary Corresponding Secretaries.

MARY MCMURTRIE, A.B., 1104 *Spruce Street*, PHILADELPHIA.

SOPHIA WEYGANDT, A.B., *Upsal Street*, GERMANTOWN.

BERTHA HAVEN PUTNAM, 245 *W. 75th St.*, NEW YORK CITY.

MARGARET THOMAS CAREY, A.B. (MRS. ANTHONY MORRIS CAREY), 1228 *Madison Avenue*, BALTIMORE.

EMILY GREENE BALCH, A.B., *Prince Street, Jamaica Plain*, BOSTON.

ANNE TAYLOR SIMPSON, A.B. (MRS. FRANK H. SIMPSON), *College Hill*, CINCINNATI.

CATHARINE BEAN COX, A.B. (MRS. ISAAC M. COX), SAN JOSÉ, CAL.

ALYS WHITALL PEARSALL SMITH, A.B., 40 *Grosvenor Road S. W.*, LONDON, ENGLAND.

STUDENTS.

Fellows and Graduate Students, in Academic Year 1893-94.

LOUISE SHEFFIELD BROWNELL, *Holder of the Bryn Mawr European Fellowship.*

New York City. A. B., Bryn Mawr College, 1893. Student in Greek and English, University of Oxford, England, 1893-94.

HELEN BARTLETT, ... *Fellow in English.*

Peoria, Ill. Newnham College, 1889; studied in Berlin, 1882-84, and 1890; A. B., Bryn Mawr College, 1892, and A. M., 1893. Graduate Student in English, Bryn Mawr College, 1892-93.

JANE LOUISE BROWNELL, ... *Fellow in History.*

Bristol, Conn. A. B., Bryn Mawr College, 1893.

THÉRÈSE F. COLIN, ... *Fellow in Romance Languages.*

New York City. Diplomée et agrégée, Collège de Neuchâtel, 1875. A. M., Leland Stanford, Jr., University, 1893.

ELIZABETH MARY FAIRCLOUGH, ... *Fellow in Greek.*

Hamilton, Ont. A. B., McGill University, 1893.

RUTH GENTRY, ... *Fellow by Courtesy in Mathematics.*

Stilesville, Ind. Ph B., University of Michigan, 1890: Fellow in Mathematics, Bryn Mawr College, 1890–91; Holder of the European Fellowship of the Association of Collegiate Alumnæ, 1891–92; University of Berlin, 1891-92; Sorbonne, 1892; Fellow in Mathematics, Bryn Mawr College, 1892–93.

ADA ISABEL MADDISON, ... *Fellow in Mathematics.*

Reading, England. University of South Wales and Monmouthshire, 1885–89; Girton College, University of Cambridge, England, 1889–92; Mathematical Tripos, 1892; Oxford Greats, 1892; Graduate Student in Mathematics, Bryn Mawr College, 1892–93; B.Se., University of London, Mathematical Honors, 1893.

ELIZABETH NICHOLS, ... *Fellow in Biology.*

Philadelphia, Pa. A.B. Bryn Mawr College, 1893.

EMMA HARRIET PARKER, ... *Fellow in Chemistry.*

Charlestown, N. H. B.S., Smith College, 1887. Graduate Student, Bryn Mawr College, 1892–93.

HELEN WINNIFRED SHUTE, ... *Fellow in Teutonic Philology.*

Exeter, N. H. A.B., Smith College, 1887. Assistant in German, Smith College, 1887–93.

WINIFRED WARREN, ... *Fellow in Latin.*

Cambridge, Mass. A.B., Boston University, 1891.

ELIZA RAYMOND ADAMS, ... *Political Science.*

Indianapolis, Ind. A. B., Bryn Mawr College, 1893.

EMMA LOUISE ATKINS, ... *Chemistry.*

Indianapolis, Ind. A.B., Bryn Mawr College, 1894.

BESSIE BAKER, ... *German.*

Lafayette, Ind. B.S., Purdue University, 1886. Assistant Librarian, Bryn Mawr College Library, 1893–94.

DORA BARR, ... *English.*

New Wilmington, Pa. B. S., Westminster College, 1892.

STELLA BASS, ... *English.*

Evanston, Ill. Ph.B., North Western University, 1889.

ESTHER F. BYRNES, ... *Garrett Scholar in Biology.*

Philadelphia, Pa. A.B., Bryn Mawr College, 1891. Demonstrator in the Biological Laboratory, Vassar College, 1891–93.

BEULAH WALTER DARLINGTON, ... *Latin and English.*

West Chester, Pa. A.B., Swarthmore College, 1890. Teacher in Friends' Graded School, West Chester, Pa., 1890–93.

ESTHER FRIEDLANDER, ... *Garrett Scholar in Greek.*

Minneapolis, Minn. A. B., University of Minnesota, 1892, and A. M., 1893.

CLARIBEL GARDNER, ... *Greek and Mathematics.*

Lotus, Ind. A. B., Earlham College, 1893.

ANNA GODDARD, ... *Political Science.*

Muncie, Ind. B.L., Earlham College, 1891. Graduate Student in History, Bryn Mawr College, 1891–92.

LEAH GOFF, ... *Biology.*

Bryn Mawr, Pa. A.B., Bryn Mawr College, 1889. Graduate Student in Biology, Bryn Mawr College, 1889–90. Assistant Demonstrator in Biology, Bryn Mawr College.

JANE BOWNE HAINES, ... *Sociology.*

Cheltenham, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1892. Graduate Student in History and Political Science, Bryn Mawr College, 1891–92; Fellow in History, Bryn Mawr College, 1892–93.

MARY BAILEY HEATH, ... *English and German.*

Bryn Mawr, Pa. B. L., Ohio Wesleyan University, 1893.

FLORENCE V. KEYS, ... *English.*

Toronto, Canada. A.B., University of Toronto, 1891. Fellow in Greek, Bryn Mawr College 1891–92; Fellow in English, Bryn Mawr College, 1892–93; Reader in English, Bryn Mawr College, 1893–94.

CAROLINE W. LATIMER, ... *Chemistry and Physiology.*

Baltimore, Md. M.D., Woman's Medical College of Baltimore, 1890. Post-Graduate Medical Course, Johns Hopkins Hospital, 1890–91; Graduate Student, Bryn Mawr College, 1891–94.

ELVA LEE, ... *English.*

Randolph, N. Y. A.B., Bryn Mawr College, 1893.

MARY H. LEWIS, ... *History and Political Science.*

Albion, Iowa. A.B., Penn College, 1893.

DOROTHY WILBERFORCE LYON, ... *Garrett Scholar in English.*

Elizabeth, N. J. A.B., Wells College, 1887. Graduate Student, Bryn Mawr College, 1887–89, 1892–93.

FANNY LOWATER, ... *Physics.*

Nottingham, England. University College, Nottingham, England, 1888–1891, 1892–93; Newnham College, University of Cambridge, England, 1891–92; Student Assistant in Physics, Bryn Mawr College, 1893–94.

MARY TAYLOR MASON, ... *Mathematics.*

Germantown, Pa. A.B., Bryn Mawr College, 1892. Teacher of History in Mrs. E. L. Head's School, Germantown, Pa., and Graduate Student in Sociology, Bryn Mawr College, 1892–93.

NELLIE NEILSON, ... *English and History.*

Philadelphia, Pa. A B., Bryn Mawr College, 1893.

HELEN SLEEPER PEARSON, ... *Mathematics.*

Boston, Mass. A.B., Smith College, 1881, and A.M., 1883. Graduate Student, Bryn Mawr College, 1891–93.

VIRGINIA RAGSDALE, ... *Mathematics and Physics.*

Jamestown, N. C. B.S., Guilford College, 1892.

ANNA ELY RHOADS, ... *Garrett Scholar in Biblical Literature.*

Bryn Mawr, Pa. A.B., Bryn Mawr College, 1889. Graduate Student in Greek, Bryn Mawr College, 1889–90; University of Leipsic, 1890–91.

HELEN J ROBINS, ... *English.*

Philadelphia, Pa. A.B., Bryn Mawr College, 1892. Secretary to the Dean, Bryn Mawr College, 1892–93; Teacher of History and English Literature in Mrs. Edward Robins' School, Philadelphia; Teacher of Special Class in English Literature, Miss Case and Miss Hallowell's School, Philadelphia.

AMY CORDOVA ROCK, ... *Chemistry.*

Washington, D. C. A.B., Bryn Mawr College, 1893. Student-Assistant in Chemistry, Bryn Mawr College, 1893–94.

EDITH F. SAMPSON, ... *Biology.*

Germantown, Pa. A.B., Bryn Mawr College, 1890. Graduate Student in Biology, Bryn Mawr College, 1891–93.

LILIAN VAUGHAN SAMPSON, ... *Biology.*

Germantown, Pa. A.B., Bryn Mawr College, 1891. Holder of the Bryn Mawr European Fellowship, 1891–92; Graduate Student in Biology, Bryn Mawr College, 1891–92; Student in Biology, University of Zürich, 1892–93.

LUELLA H. THORNE, ... *Garrett Scholar in Greek.*
Skaneateles, N. Y. A.B., Bryn Mawr College, 1890. Teacher in Jamaica School, Long Island, 1890-92; Teacher in Friends' School, Union Springs, N. Y., 1892-93.

INEZ LORENA TAGGART, ... *English.*
Walton, Kansas. A. B., University of Kansas, 1890, and A.M., 1892. Teacher of English in High School, Arkansas City, Kansas, 1890-93.

LOUISE WILLIE TULL, ... *Greek and Latin.*
Fairmount, Md. A.B., Woman's College, Baltimore, 1893.

SUSAN GRIMES WALKER, ... *Sociology.*
Boston, Mass. A.B., Bryn Mawr College, 1893. Secretary to the Dean, Bryn Mawr College, 1893-94.

CORA E. WHITE, ... *Mathematics.*
Belvidere, N. C. B. S., Guilford College, 1893.

JULIA S. WHITE, ... *Mathematics.*
Belvidere, N. C. B.S., Guilford College, 1890.

Undergraduates, Academic Year 1893-94.

LUCY WILLSON ADAMS, ... *Group,* ———, 1894.
New York City. Prepared by private study.

GRACE ALBERT, ... *Group, Latin and English,* 1893-94.
Philadelphia, Pa. Prepared by Miss E. F. Gordon's School, Philadelphia.

LYDIA MITCHELL ALBERTSON, ... *Group,* ———, 1893-94.
Philadelphia, Pa. Prepared by Friends' Select School, Philadelphia.

SUSAN FRANCIS ALLYN, ... *Group,* ———, 1893-94.
Delavan, Wis. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

SUSAN KITE ALSOP, ... *Group,* ———, 1893-94.
Haverford, Pa. Special Student at Cornell University, 1891-93.

SARAH HILDRETH AMES, ... *Group,* ———, 1893-94.
Highlands, N. J. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

FRANCES ARNOLD, ... *Group,* ———, 1893-94.
New York City. Prepared by the Brearley School, New York City.

CORA BAIRD, ... *Group, German and French,* 1892-94.
Merion, Pa. Prepared by Miss Robb, Merion, Pa.

LUCY BAIRD, ... *Group, History and Political Science,* 1891-94.
Louisville, Ky. Prepared by Girls' High School, Louisville, Ky.

GRACE PECKHAM BALDWIN, ... *Group,* ———, 1892-94.
Worcester, Mass. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

ELIZABETH GRAEME BARBOUR, *Group, Latin and English,* 1888-89, 1893-94.
Richmond, Ky. Central University, Richmond, Ky., 1880-88. Principal of Private School, Richmond, Ky., 1889-93.

CLYDE BARTHOLOMEW, ... *Group, Greek and* ———, 1893-94.
Kingston, Pa. Prepared by Wyoming Seminary, Kingston, Pa.

ANNA MOORE BEDINGER, ... *Group, Latin and* ———, 1894.
Anchorage, Ky. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

ELIZABETH CONWAY BENT, ... *Group, Greek and Latin,* 1891-94.
Harrisburg, Pa. Prepared by Mlle. de Bonneville's School, Philadelphia.

HELEN R. BIDDLE, ... *Group*, ———, 1894.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

MABEL BIRDSALL, ... *Group, Latin and German*, 1890–94.
Glens Falls, N. Y. Prepared by Glens Falls Academy.

SUE AVIS BLAKE, ... *Group*, ———, 1893–94.
Philadelphia, Pa. Prepared by Walton School, Philadelphia.

ELISABETH HEDGES BLAUVELT, ... *Group*, ———, 1892–94.
Franklin Park, N. J. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

LYDIA TRUMAN BORING, ... *Group, Latin and German*, 1892–94.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia.

ELSA BOWMAN, ... *Group*, ———, 1892–94.
New York City. Prepared by the Brearley School, New York City.

ABBY SLADE BRAYTON, ... *Group, Latin and French*, 1890–94.
Fall River, Mass. Prepared by B. M. C. Durfee High School, Fall River, Mass., and by Miss Mary E. Stevens' School, Germantown, Pa.

MARY BIDWELL BREED, ... *Group, Chemistry and Biology*, 1890–94.
Pittsburgh, Pa. Graduate Pennsylvania College for Women, 1889.

EMILY EASTMAN BROWN, ... *Group*, ———, 1893–94.
Binghamton, N. Y. Prepared by High School, Binghamton, N. Y.

MARY OWEN BROWN, ... *Group, English and French*, 1892–94.
Louisville, Ky. Prepared by the Bryn Mawr School, Baltimore, Md.

ELEANOR OLIVIA BROWNELL, ... *Group*, ———, 1893–94.
New York City. Prepared by The Brearley School, New York City.

HARRIET MATHER BROWNELL, ... *Group, Greek and Latin*, 1892–94.
Bristol, Conn. Prepared by High School, Hartford, Conn.

GRACE E. BRUNER, ... *Group, History and Political Science*, 1893–94.
Philadelphia, Pa. Prepared by Girls' Normal School, Philadelphia, by Professor Brown's Preparatory School, and by private study.

FLORENCE HARNEY BUTLER, ... *Group*, ———, 1893–94.
Lake Forest, Ill. Prepared by Miss Rice's Girls' Collegiate School, and by private study.

CAROLINE WARDER CADBURY, ... *Group*, ———, 1894.
Germantown, Pa. Prepared by Friends' School, Germantown, Pa.

EMMA CADBURY, JR., ... *Group*, ———, 1894.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

HANNAH WARNER CADBURY, . *Group, History and Political Science*, 1892–94.
Germantown, Pa. Prepared by Friends' School, Germantown, Pa.

ANNE ELIZABETH MILLER CALDWELL, ... *Group*, ———, 1893–94.
Pittsburgh, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

MAY MORIARTY CAMPBELL, ... *Group, Latin and German*, 1893–94.
Orange, N. J. Prepared by Dearborn-Morgan School, Orange, N. J.

HELENA CHAPIN, ... *Group, History and Political Science*, 1892–94.
York, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

REBEKAH MUNROE CHICKERING, *Group, History and Political Science*, 1893–94.
Mattapan, Mass. Prepared by Milton Academy, Mass.

ALICE LONGFELLOW CILLEY, ... *Group*, ———, 1893–94.
New York City. Prepared by The Brearley School, New York City.

ANNE C. COLEMAN, ... *Group, Chemistry and Biology*, 1891–94.
Lebanon, Pa. Prepared by Miss Irwin's School, Philadelphia, and by private study.

MARY ELEANOR CONVERSE, ... *Group*, ———, 1893–94.
Rosemont, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr.

KATHARINE INNES COOK, ... *Group*, ———, 1893–94.
Cambridge, Mass. Special Student at Harvard Annex.

MARY VIRGINIA CRAWFORD,
Group, History and Political Science, 1891–92, 1893–94.
Bryn Mawr, Pa. Prepared by Mr. and Mrs. L. M. Johnson's School, Philadelphia, and by Miss Florence Baldwin's School, Bryn Mawr, Pa.

SARAH WILSON DARLINGTON, ... *Group, Greek and Latin*, 1890–94.
Glen Mills, Pa. Prepared by Friends' Graded School, West Chester, Pa., and by Friends' Central School, Philadelphia.

ELINOR MARGARET DE ARMON, ... *Group*, ———, 1893–94.
Dayton, Ohio. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

ABIGAIL CAMP DIMON, ... *Group*, ———, 1892–94.
Utica, N. Y. Prepared by Mr. George C. Sawyer, Utica Academy, Utica, N. Y.

MASA DOGURA, ... *Group*, ———, 1892–94.
Yamato, Japan. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa., and by Miss Mary E. Stevens' School, Germantown, Pa.

JULIA BLACKBURN DUKE, . . *Group, History and Political Science*, 1893–94.
Louisville, Ky. Prepared by private study.

MARGARET BRYDIE DYER, ... *Group, Greek and Latin*, 1893–94.
St. Louis, Mo. Prepared by Mary Institute, St. Louis.

ELLA LOUISA EBERMAN, . *Hearer, History and Modern Languages*, 1893–94.
Lancaster, Pa. State Normal School, Millersville, Pa.; studied in Paris, Geneva and Dresden.

EDITH EDWARDS, ... *Group*, ———, 1894.
Woonsocket, R. I. Prepared by Mr. Parish's School, Boston, Mass., and by Miss Florence Baldwin's School, Bryn Mawr, Pa.

MARY FRENCH ELLIS, ... *Group, Chemistry and Biology*, 1891–94.
Philadelphia, Pa. Prepared by Miss Boyer's School, Philadelphia.

SARA FRAZER ELLIS, ... *Group*, ———, 1894.
Pittsburgh, Pa. Prepared by Pennsylvania College for Women, and by private study.

KATRINA BRANDES ELY, ... *Group*, ———, 1893–94.
Bryn Mawr, Pa. Prepared by Detroit Home and Day School, by Miss Florence Baldwin's School, Bryn Mawr, Pa., and by private study.

CLARA E. FARR, ... *Group, Greek and French*, 1892–94.
Wenonah, N. J. Prepared by Wellesley Preparatory School, Philadelphia.

MARY LUELLA FAY, ... *Group, History and Political Science*, 1893–94.
Boston, Mass. Prepared by Girls' High School, Boston, Mass., by Miss H. St. B. Brooks, and by private study.

FRANCES AMELIA FINCKE, ... *Group, German and French*, 1893–94.
Utica, N. Y. Prepared by Utica Free Academy.

MARY FLEXNER, ... *Group, History and Political Science*, 1891–94.
Louisville, Ky. Prepared by Girls' High School, Louisville; and by private study.

BLANCHE DAVIS FOLLANSBEE, ... *Group, Latin and French*, 1890–94.
Chicago, Ill. Wells College, 1889–90.

SUE DAVIS FOLLANSBEE, ... *Group*, ———, 1893–94.
Chicago, Ill. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

GRACE MARIE FORD, ... *Group, Greek and Latin*, 1893–94.
Omaha, Neb. Prepared by Dearborn-Morgan School, Orange, N. J.; Wellesley College, 1891–93.

CAROLINE REEVES FOULKE, ... *Group, English and German*, 1892–94.
Richmond, Ind. Prepared by Miss Mary E. Stevens' School, Germantown, Pa., and by Fraülein Rembrecht, Berlin.

LYDIA HELEN FOULKE, ... *Group, Biology and Chemistry*, 1893–94.
Richmond, Ind. Prepared by Frl. Rembrecht's School, Berlin, Germany, and by Miss Mary E. Stevens' School, Germantown, Pa.

SUSAN FOWLER, ... *Group, Greek and Latin*, 1891–94.
Baltimore, Md. Prepared by St. Timothy's School, Catonsville, Md.

MARY GERTRUDE FROST, ... *Group*, ———, 1893–94.
Waltham, Mass. Prepared by Waltham New Church School.

ROSALIE ALLAN FURMAN, ... *Group, Chemistry and Biology*, 1891–94.
Evansville, Ind. Prepared by Evansville High School, and by private study.

RUTH WADSWORTH FURNESS, ... *Group, Greek and English*, 1892–94.
Chicago, Ill. Prepared by Miss Rice's Collegiate School for Girls, Chicago, Ill.

CAROLINE MORRIS GALT, ... *Group, Greek and Latin*, 1893–94.
Aurora, Ill. Prepared by Jennings' Seminary, Aurora, Ill.

IDA ELIOT GIFFORD, ... *Group, English and German*, 1893–94.
New Bedford, Mass. Prepared by Friends' Academy, New Bedford.

ELLEN ROSE GILES, ... *Group, Greek and Semitic Languages*, 1893–94.
Philadelphia, Pa. Prepared by Wellesley Preparatory School, Philadelphia; Wellesley College, 1892–93.

MARY AGNES GLEIM, ... *Group, Latin and English*, 1892–94.
Philadelphia, Pa. Prepared by private study.

GERTRUDE ALICE GOFF, . . . *Group, History and Political Science*, 1893–94.
Bryn Mawr, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

PAULINE D. GOLDMARK, . . *Group, History and Political Science*, 1892–94.
New York City. Prepared by The Brackett School, New York City.

ANNA BRIGHT GREEN, ... *Group, German and French*, 1892–94.
Reading, Pa. Prepared by Reading High School, by Professor Laroche, and by private study.

CORNELIA BONNELL GREENE, ... *Group*, ———, 1893–94.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

BELLA MIRA GROSSMANN, ... *Group, English and German*, 1891–94.
New York City. Prepared by The Brearley School, New York City.

ELIZABETH GLEIM GUILFORD, . . *Group, Mathematics and Physics*, 1890–94.
Lansdowne, Pa. Swarthmore College, 1889–90.

HELEN EAYRE HAINES, ... *Group*, ———, 1892–94.
Vincentown, N. J. Prepared by Miss Randolph's School, Baltimore, Md., and by Miss Mary E. Stevens' School, Germantown, Pa.

EDITH HAMILTON, ... *Group, Greek and Latin*, 1891–94.
Fort Wayne, Ind. Prepared by Miss Porter's School, Farmington, Conn., and by private study.

MARGARET HAMILTON, ... *Group, Biology and Chemistry*, 1893–94.
Fort Wayne, Ind. Prepared by Miss Porter's School, Farmington, Conn., and by private study.

MARY HARRIS, ... *Group, Mathematics and Physics*, 1890–92, 1893–94.
Bryn Mawr, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

MADELINE VAUGHAN HARRIS, ... *Group, Latin and* ———, 1891–94.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

MABEL STEVENS HAYNES, ... *Group, Biology and Chemistry*, 1894.
Boston, Mass. Prepared by Miss Florenee Baldwin's School, Bryn Mawr, Pa.

GERTRUDE LANGDEN HERITAGE, *Group, Mathematics and Physics*, 1891–94.
Bryn Mawr, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

FRIEDRIKA MARGRETHA HEYL, . . . *Group, German and English*, 1894.
Dunkirk, N. Y. Prepared by Dunkirk High School, and by Miss Florence Baldwin's School, Bryn Mawr, Pa.

ELIZABETH BETHUNE HIGGINSON, ... *Group*, ———, 1893–94.
New York City. Prepared by The Brearly School, New York City.

MARY DAYTON HILL, ... *Group, Chemistry and Biology*, 1892–91.
New Brunswick, N. J. Prepared by Mrs. F. L. Nason and Miss Helen A. Merrill, New Brunswick, N. J.

JOSEPHINE BOWEN HOLMAN, ... *Group, Greek and Latin*, 1892–94.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis. Ind.

ELIZABETH HOPKINS, ... *Group, History and Political Science*, 1892–94.
New York City. Prepared by Miss Gibbons' School, New York City, and by private study.

HELEN ROLFE HOPKINS, ... *Group, Chemistry and Biology*, 1890–94.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md. Women's College of Baltimore, 1888–89.

MARY DELIA HOPKINS, ... *Group, German and English*, 1892–94.
Clinton, N. Y. Prepared by Frl. Schmidt, Leipsic, and by Miss Mary E. Stevens' School, Germantown, Pa.

JENNIE ELIZABETH HORNER, ... *Group, English and German*, 1891–94.
Philadelphia, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

ELIZABETH S. HOSFORD, ... *Group*, ———, 1892–94.
Philadelphia, Pa. Prepared by Miss Gordon's School, Philadelphia.

AGNES HOWSON, ... *Group*, ———, 1893–94.
Wayne, Pa. Prepared by Friends' Central School, Philadelphia, Pa.

FLORENCE STEVENS HOYT, ... *Group, Chemistry and Biology*, 1893–94.
Rome, Ga. Prepared by private study.

HELEN STRONG HOYT, ... *Group, Latin and English*, 1893–94.
Wilkesbarre, Pa. Prepared by private study.

MARY DENVER JAMES, ... *Group, Latin and French*, 1891–94.
Coshocton, O. Philosophical Course, Wooster University, 1890–91.

MARIANNA JANNEY, ... *Group, Latin and German*, 1891–94.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by Miss Mary E. Stevens' School, Germantown, Pa.

MARY WARREN JEWETT, ... *Group, Greek and Latin*, 1892–94.
Moravia, N. Y. Prepared by Granger Place School, Canandaigua, N. Y.

ALICE JONES, ... *Group, Chemistry and Biology*, 1893–94.
Santa Monica, Cal. Prepared by private study.

HILDA JUSTICE, ... *Group*, ———, 1892–94.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

DORA KEEN, ... *Group, History and Political Science*, 1888–92, 1893–94.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

FLORENCE KING, ... *Group, German and French*, 1892–94.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

GEORGIANA GODDARD KING, ... *Group, Greek and English*, 1892–94.
Norfolk, Va. Prepared by The Leache-Wood School, Norfolk, Va., and by private study.

MARY BROSIUS KIRK, ... *Group, Greek and Latin,* 1893–94.
Kennett Square, Pa. Prepared by Martin Academy, Kennett Square, Pa.

ELIZABETH BUTLER KIRKBRIDE, *Group, History and Political Science,* 1892–94.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia, and by Miss C. C. Guyer, Philadelphia.

JULIA ETHEL LANDERS, . . *Group, History and Political Science,* 1889–94.
Indianapolis, Ind. Prepared by Girl's Classical School, Indianapolis, Ind.

PEARL ADÈLE LANDERS, ... *Group,* ———, 1893–94.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

CLARA LANDSBERG, ... *Group, Greek and Latin,* 1893–94.
Rochester, New York. Prepared by the Cruttenden School, Rochester, N. Y., and by private study.

MARTHA DIVEN LA PORTE, ... *Group, Greek and Latin,* 1890–94.
Tyrone, Pa. Prepared by Mountain Seminary, Birmingham, Pa.

ELEANOR L. LATTIMORE, ... *Group, Chemistry and Biology,* 1892–94.
Rochester, N. Y. Prepared by Miss Cruttenden's School, Rochester, N. Y.

EDITH LAWRENCE, ... *Group,* ———, 1893–94.
New York City. Prepared by private study.

ANNA BELL LAWTHER, ... *Group, Mathematics and Physics,* 1893–94.
Dubuque, Io. Wells College, 1891–92; Miss Mary E. Stevens' School, Germantown, Pa., 1892–93.

GRACE EVELYN LAWTON, ... *Group,* ———, 1893–94.
Newport, R. I. Prepared by Rogers High School, Newport, R. I.

AIMÉE GILBERT LEFFINGWELL, ... *Group,* ———, 1893–94.
Bar Harbor, Me. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

FLORENCE LEFTWICH, ... *Group,* ———, 1893–94.
Baltimore, Md. Wellesley College, 1884–85.

MARY ARMSTRONG LEVERING, *Group, History and Political Science,* 1893–94.
Baltimore, Md. Prepared by the Bryn Mawr School, Baltimore, Md.

EMMA HILLMAN LINBURG, ... *Group,* ———, 1892–94.
Trenton, N. J. Prepared by Miss Martha Watson, Trenton, N. J., and by the Model School, Trenton, N. J.

JESSIE LIVINGSTON LOUDERBACK, . . . *Group, History and Political Science,* 1890–91, 1892–94.
New York City. Prepared by Miss Jaudon's School, New York City.

GRACE CONSTANCE LOUNSBURY, . . . *Group, Biology and Chemistry,* 1894.
New York City. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

FAY MARY MACCRACKEN, ... *Group, Latin and French,* 1890–94.
New York City. Prepared by Miss Graham's School, New York City.

DAISY PATTERSON MALOTT, ... *Group,* ———, 1893–94.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.

EUPHEMIA MARY MANN, ... *Group,* ———, 1893–94.
Philadelphia, Pa. Prepared by Miss F. M. Schleigh's School, Philadelphia, and by private study.

LILIAN M. MAPPIN, ... *Group, Greek and Latin,* 1891–94.
Bryn Mawr, Pa. Prepared by Rev. W. F. Mappin and by private study.

CORA ADRIANA MARSH, ... *Group,* ———, 1893–94.
New London, Conn. Prepared by private study.

EMILY NORTON MARTIN, ... *Group, Latin and Mathematics*, 1890–94.
Ardmore, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa., and by private study.

FAITH TRUMBULL MATHEWSON, ... *Group*, ———, 1892–94.
Brooklyn, N. Y. Prepared by Mrs. Goodwin's School, Brooklyn, N. Y.

REBECCA TAYLOR MATTSON, ... *Group, English and German*, 1892–94.
Breckenridge, Minn. Prepared by Miss Austin, Miss Knorr, and Miss Parigot, Philadelphia.

CARRIE MCCORMICK, ... *Group, History and Political Science*, 1892–94.
Chicago, Ill. Prepared by The Bryn Mawr School, Baltimore, Md.

MARY ANNA MENDINHALL, . *Group, History and Political Science*, 1891–94.
Wilmington, Del. Prepared by Friends' School, Wilmington, Del.

HELEN MIDDLETON, ... *Group, History and Political Science*, 1890–94.
Pittville, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

MARY ALICE MILLER, ... *Group, Biology and Chemistry*, 1894.
Jamaica Plain, Mass. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa., and by private study.

MARIE LOUISE MINOR, ... *Group, Chemistry and Biology*, 1890–94.
Brooklyn, N. Y. Prepared by the Packer Collegiate Institute, Brooklyn, N. Y.

MILDRED MINTURN, ... *Group*, ———, 1893–94.
New York City. Prepared by the Brearley School, New York City.

ELLEN KEY HOWARD MORGAN, ... *Group*, ———, 1892–93.
Lexington, Ky. Prepared by State College of Kentucky, and by private tuition.

MARY NEVILLE, ... *Group, Greek and Latin*, 1891-94.
Lexington, Ky. Prepared by private study, and by Miss Mary E. Stevens' School, Germantown, Pa.

ZELINDA NEVILLE, ... *Group, Greek and Latin*, 1892-94.
Lexington, Ky. Prepared by private study, and by Miss Mary E. Stevens' School, Germantown, Pa.

MARGARET PARSONS NICHOLS, ... *Group, Latin and English*, 1893-94.
Binghamton, New York. Prepared by High School, Binghamton, N. Y.

TIRZAH LAMSON NICHOLS, . . *Group, History and Political Science*, 1892–94.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, by Miss Florence Baldwin's School, Bryn Mawr, Pa., and by private study.

ELIZABETH R. NICHOLSON, ... *Group, Chemistry and Biology*, 1891–94.
Haverford, Pa. Prepared by The Girton School, Haverford, Pa.

LAURA NILES, ... *Group, History and Political Science*, 1893–94.
Philadelphia, Pa. Prepared by private study.

ELIZABETH NORCROSS. *Group*, ———, 1893–94.
Carlisle, Pa. Prepared by Metzger Institute, Carlisle, Pa., by Fräulein Theilen, Leipsic, and by Miss Mary E. Stevens' School, Germantown, Pa.

LEILA VERPLANCK NORTH, ... *Group, Greek and Germany*, 1893–94.
New York City. Wellesley College, 1881–82.

MARY NORTHROP, ... *Group, History and Political Science*, 1892–94.
Marquette, Mich. Prepared by Marquette High School, and by Miss Florence Baldwin's School, Bryn Mawr, Pa.

IDA HELEN OGILVIE, ... *Group, Chemistry and Biology*, 1892–94.
New York City. Prepared by The Brearley School, New York City, and by private study.

MARY PECKHAM, ... *Group*, ———, 1893–94.
Westfield, N. J. Prepared by The Misses Vail and Deane's School, Elizabeth, N. J.

ANNA MARIA WHITAKER PENNYPACKER, ... *Group*, ———, 1893–94.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia.

ELIZA BROOMALL PENNYPACKER, ... *Group*, ———, 1893–94.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia.

EDITH M. PETERS, ... *Group*, ———, 1893–94.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

EDITH PETTIT, ... *Group, Latin and English*, 1891–94.
Philadelphia, Pa. Prepared by Miss Irwin's School, Philadelphia.

KATHERINE PORTER, ... *Group, Chemistry and Biology*, 1890–94.
Baltimore, Md. Prepared by Friends' Elementary and High School, Baltimore, Md., and by private study; student in Preliminary Medical Course.

LAURETTE EUSTIS POTTS. *Group, Latin and English*, 1890–94.
Philadelphia, Pa. Prepared by Bellefonte Academy, Bellefonte, Pa., and by private tuition.

CORINNA HAVEN PUTNAM, ... *Group, Greek and Latin*, 1893–94.
New York City. Prepared by The Brearley School, New York City.

ESTELLE REID, ... *Group, History and Political Science*, 1890–94.
New York City. Prepared by Miss Gibbons' School, New York City, and by Miss Flattery, New York City.

BERTHA REMBAUGH, ... *Group, History and Political Science*, 1893–94.
Bryn Mawr. Pa. Prepared by Schleigh Academy, and by private study.

MARY ALTHEA RIDDLE, ... *Group*, ———, 1893–94.
Chicago, Ill. Prepared by Kenilworth Hall, Kenilworth, Ill., and by private study.

MARY HELEN RITCHIE, ... *Group, Greek and Latin*, 1891–92,1893–94.
Falls of Schuylkill, Pa. Prepared by Miss Irwin's School, Philadelphia.

CONSTANCE ROBINSON, ... *Group, Latin and Greek*, 1894.
Providence, R. I. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa., and by private study.

HELEN MATHEWSON SAUNDERS, . . . *Group, French and German*, 1893–94.
Yonkers, N. Y. Prepared by High School, Yonkers, N. Y.

ANNA SCATTERGOOD, ... *Group, History and Political Science*, 1892–94.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

MABEL ANTOINETTE SEARLE, ... *Group*, ———, 1894.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia, Pa.

BESSIE SEDGWICK, ... *Group*, ———, 1894.
Wilmington, Del. Prepared by Friends' School, Wilmington, Del.

ELIZABETH DAY SEYMOUR, ... *Group*, ———, 1893–94.
New Haven, Conn. Prepared by Hillhouse High School, New Haven, Conn., and by private study.

MARGARET HILLES SHEARMAN, *Group, History and Political Science*, 1890–94.
Wilmington, Del. Prepared by the Misses Hebb, Wilmington, Del., and by Miss Mary E. Stevens' School, Germantown, Pa.

HARRIET RIDGWAY SHREVE. . . . *Group, Latin and Mathematics*, 1891–94.
Plainfield, N. J. Prepared by Miss Pomeroy and Mrs. Sudler, Plainfield, N. J., and by private study.

ELSIE CAMPBELL SINCLAIR, ... *Group*, ———, 1893–94.
Cedar Rapids, Iowa. Prepared by Miss Gordon's School, Philadelphia.

CLARRISSA WORCESTER SMITH, *Group, French, Italian and Spanish*, 1892–94.
Worcester, Mass. Prepared by Miss Heloise E. Hersey's School, Boston, Mass., and by Mr. John W. Dalzell's School for Boys, Worcester, Mass.

MARY FAIRBANK SMITH, ... *Group, Latin and Mathematics*, 1893–94.
Jaffna, Ceylon. Wellesley College, 1890–91, 1892–93.

HELEN GOLDSBOROUGH SMYTHE, ... *Group,* ———, 1893–94.
New York City. Prepared by The Brearley School, New York City.

JENNIE M. STAADEKER, . . . *Group, History and Political Science*, 1890–94.
Louisville, Ky. Prepared by Girls' High School, Lonisville, Ky., and by private study.

ELIZABETH BALLANTINE STEPHENS, *Group, Biology and Chemistry*, 1893–94.
New York City. Prepared by Miss Annie Brown's School, New York City, and by private study.

CLARIBEL STUBBS, ... *Group, Biology and Chemistry*, 1893–94.
Merion, Pa. Prepared by Friends' Select School, Philadelphia, and by Miss Florence Baldwin's School, Bryn Mawr, Pa.

BERTHA SZOLD, ... *Group, Latin and English*, 1891–94.
Baltimore, Md. Prepared by the Misses Adams' School, Baltimore, Md.

MARIAN RUSSELL TABER, . . *Group, History and Political Science*, 1893–94.
New York City. Prepared by The Brearley School. New York City.

ANNIE HEATH THOMAS, ... *Group,* ———, 1893–94.
Philadelphia, Pa. Prepared by Girls' Normal School, Philadelphia, by Miss Mary E. Stevens' School, Germantown, Pa., and by private study.

CHARLOTTE DE MACKLOT THOMPSON, *Group, Greek and Mathematics*, 1892–94.
Baltimore, Md. Prepared by private study.

LYDIA LOIS TILLEY, ... *Group, Mathematics and Physics*, 1891–94.
Norfolk County, Va. Prepared by Hemenway High School, and by Norfolk College.

ELIZABETH WILLIAMS TOWLE, ... *Group, English and Latin*, 1893–94.
Dobbs Ferry, N. Y. Iowa College.

HELEN ELIZABETH TUNBRIDGE, ... *Group, History and Political Science*, 1893–94.
Utica, N. Y. Prepared by Mrs. Piatt's School, Utica, N. Y.

CLARA WARREN VAIL, ... *Group, History and Political Science*, 1893–94.
New York City. Prepared by the Brearley School, New York City.

EDITH LOUISE VAN KIRK, ... *Group, Latin and French*, 1890–94.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia, and by private study.

MARY ELIZABETH WADDINGTON, ... *Group, Greek and Latin*, 1893–94.
New York City. Prepared by Academic Classes for Girls, New York City.

ANNA MARTHA WALKER, . . . *Group, Greek and Latin*, 1889–91, 1892–94.
Glen Moore, Pa. Prepared by Darlington Seminary, West Chester, Pa., and by Miss Mary E. Stevens' School, Germantown, Pa.

ETHEL MCCOY WALKER, . . . *Group, History and Political Science*, 1890–94.
Washington, D. C. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

ADELINE B. WALTERS, ... *Group, Greek and Latin*, 1891–94.
Lansdowne, Pa. Prepared by Friends' Central School, Philadelphia.

MARGARET WARNER, ... *Group, History and Political Science*, 1891–94.
Hartford, Conn. Prepared by High School, Hartford, Conn.

ELEANOR MERRIKEN WATKINS, . . *Group, Latin and Mathematics*, 1892–94.
New York City. Prepared by Miss Gibbons' School, New York City.

ANNA E. WEST, ... *Group,* ———, 1891–94.
Moorestown, N. J. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

WINIFRED FAY WHEELER, ... *Group,* ———, 1893–94.
New York City. Prepared by The Brearley School, New York City.

MARION ANNA WHITEHEAD, . . . *Group, Latin and Mathematics,* 1892–94.
Trenton, N. J. Prepared by the State Model School, Trenton, N. J.

EFFIE WHITTREDGE, ... *Group,* ———, 1893–94.
Summit, N. J. Prepared by Summit Collegiate Institute, Summit, N. J.

JOSEPHINE LAPE WILLETT, ... *Group,* ———, 1893–94.
Glens Falls, N. Y. Vassar College, 1889–91.

SOPHIA WELLS WILLIAMS, ... *Group, Chemistry and Biology,* 1893–94.
Auburndale, Mass. Cornell University, 1890–92.

EMMA STANSBURY WINES, ... *Group, English and French,* 1890–94.
Springfield, Ill. Wellesley College, 1889–90.

LAURA WOLCOTT, ... *Group,* 1894.
Milwaukee, Wis. Preparedby private study.

MAY VIOLET WOLF, ... *Group,* ———, 1893–94.
Washington, D. C. Prepared by private study.

EDITH FRANKLIN WYATT, ... *Group, Greek and English,* 1892–94.
Chicago, Ill. Prepared by Miss Rice's Collegiate School for Girls, Chicago, Ill.

ANNA H. YARDLEY, ... *Group, Greek and Latin,* 1890–94.
Milford, Del. Prepared by Milford Classical School.

LOUISE S. YOUNG, ... *Group, History and Political Science,* 1890–94.
Philadelphia, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa., and by private tuition.

HELEN MARY ZEBLEY, ... *Group,* 1894.
Wissahickon Heights, Pa. Prepared by Friends' School, Germantown, Pa.

Former Fellows.

EMILY GREENE BALCH, . . . *Holder of the Bryn Mawr European Fellowship,* 1889–90.

Jamaica Plain, Mass. A.B., Bryn Mawr College, 1889. Student in Political Science, Collège de France and the Sorbonne, 1890–91.

ANNIE CROSBY EMERY, . . . *Holder of the Bryn Mawr European Fellowship,* 1892–93.

Ellsworth, Me. A. B., Bryn Mawr College, 1892; Graduate Student in Greek and Latin, Bryn Mawr College, 1892–93. Student in Classics, University of Leipsic, 1893–94.

LILIAN VAUGHAN SAMPSON, . *Holder of the Bryn Mawr European Fellowship,* 1891–92.

Germantown, Pa. A.B., Bryn Mawr College, 1891. Graduate Student in Biology, Bryn Mawr College, 1891–92; Student in Biology, University of Zürich, 1892–93; Graduate Student in Biology, Bryn Mawr College, 1893–94.

KATHARINE MORRIS SHIPLEY, ... *Holder of the Bryn Mawr European Fellowship,* 1890–91.

Cincinnati, O. A.B., Bryn Mawr College, 1890. University of Leipsic, 1890–91; Collège de France and the Sorbonne, 1891–92.

JANE M. BANCROFT ROBINSON,* *Fellow in History,* 1885–86.

West Stockbridge, Mass. Ph.B., Syracuse University, 1877. Ph.M., 1880, and Ph.D., 1884. Professor of French Language and Literature, Northwestern University, 1877–85; University of Zürich, 1886–87; Collège de France and the Sorbonne, 1888.

* Mrs. George O. Robinson, 1891.

CORA AGNES BENNESON, ... *Fellow in History*, 1887–88.

Quincy, Ill. A.B., University of Michigan, 1878. LL.B., 1880, and A.M., 1883.

ELIZABETH MILLER BLANCHARD, ... *Fellow in Mathematics*, 1889-90.

Bellefonte, Pa. A.B., Bryn Mawr College, 1889. Teacher of Mathematics in The Bryn Mawr School, Baltimore, Md., 1891-92.

MABEL PARKER CLARK. *Fellow in English*, 1889-90.

New York City. A.B., Bryn Mawr College, 1889, and A.M., 1890; Reader in English, Bryn Mawr College, and Graduate Student in English and French, 1890-93; Graduate Student in English and French, Columbia University, 1893-94.

KATE MAY EDWARDS, ... *Fellow in Greek*, 1888-89.

Ithaca, N. Y. A.B., Cornell University, 1888. Instructor in Greek, Wellesley College, 1889-93; Graduate Student, Cornell University, 1893-94.

EMILY WILMER CAVE FRANCE, ... *Fellow in Greek*, 1892–93.

Tysley near Birmingham, England. Mason's College, Birmingham, England, 1885-87; Girton College, University of Cambridge, England, 1888-92; Classical Tripos, 1892. Fellow in Latin, University of Chicago, 1893-94.

SUSAN BRALEY FRANKLIN, ... *Fellow in Greek*, 1889-90.

Newport, R. I. A.B., Bryn Mawr College, 1889. Graduate Student, Bryn Mawr College, 1890-92, and Fellow by Courtesy, 1891-92; Holder of the American Fellowship of the Association of Collegiate Alumnæ, and student in Greek, Bryn Mawr College, 1892-93; Instructor in Latin, Vassar College, 1893-94.

KITTY AUGUSTA GAGE, ... *Fellow in Greek*, 1885–86.

Wilton, N. H. A.B., Boston University, 1878; A.M., Cornell University, 1885. Teacher of Classics in the State Normal School, New Paltz, New York.

RUTH GENTRY, ... *Fellow in Mathematics*, 1890–91, 1892–93.

Stilesville, Ind. Ph.B., University of Michigan, 1890. Holder of European Fellowship of Association of Collegiate Alumnæ, 1891-92: University of Berlin, 1891-92; Fellow by Courtesy in Mathematics, Bryn Mawr College, 1893-94.

MARY GWINN, ... *Fellow in English*, 1885–87.

Baltimore, Md. University of Leipsic, 1879-82; University of Zürich, 1882; Sorbonne and the Collège de France, 1883; Bryn Mawr College, 1887-88. Ph.D., Bryn Mawr College, 1888; Associate Professor of English, Bryn Mawr College.

JANE BOWNE HAINES, ... *Fellow in History*, 1892–93.

Cheltenham, Pa. A.B., Bryn Mawr College, 1891, and A.M., 1892. Graduate Student in History and Political Science, Bryn Mawr College, 1891-92, 1893-94.

ELIZABETH HARRIS, ... *Fellow in Greek*, 1890-91.

Germantown, Pa. A.B., Bryn Mawr College, 1890. Teacher of Greek and Latin in The Dutch Reform Collegiate Grammar School, New York City, 1891-92; Teacher of Greek and Latin in Miss Florence Baldwin's School, Bryn Mawr, Pa.

JEAN KIRK HOWELL, ... *Fellow in Biology*, 1891–92.

Painted Post, N. Y. Ph.B., Cornell University, 1888, and M.S., 1890. Assistant in Botany, Barnard College, 1892-94.

IDA H. HYDE, ... *Fellow in Biology*, 1892–93.

Chicago, Ill. S.B., Cornell University, 1891. Student Assistant and Graduate Student in Biology, Bryn Mawr College, 1891-92; Holder of European Fellowship of Association of Collegiate Alumnæ, 1893-94; Student in Biology, University of Strasburg, 1893-94.

FLORENCE V. KEYS, . *Fellow in Greek*, 1891–92; *Fellow in English*, 1892–93.

Toronto, Canada. A.B., Toronto University, 1891. Reader in English, Bryn Mawr College, 1893-94.

ELEANOR LOUISA LORD, ... *Fellow in History*, 1889–90.

Malden, Mass. A.B., Smith College, 1887, and A. M., 1890. Instructor in History, Smith College, 1890-94.

HELEN LOUISA LOVELL, ... *Fellow in Greek*, 1887–88.

Flint, Mich. A.B., University of Michigan, 1887. Graduate Student, University of Michigan, 1888–89; Teacher of Latin and History in Girl's Classical School, Indianapolis, Ind., 1889-90; Associate in Greek and Latin, Woman's College, Baltimore, Md., 1890-91, and Associate Professor, 1891-93; Acting Professor of Greek and Latin, Earlham College, 1893-94.

GERTRUDE H. MASON, ... *Fellow in English*, 1887–88.

San José, Cal. Ph.B., University of Michigan, 1876. Teacher of English in Petaluma High School.

KATHARINE MERRILL, ... *Fellow in English*, 1890–91.

Abilene, Kan. A.B., Kansas State University, 1889. Graduate Student in English, Bryn Mawr College, 1889–90; Harvard Annex, 1891–92; Assistant Professor of English Literature, University of Illinois, 1892–94.

CAROLINE MILES, ... *Fellow in History*, 1891–92.

Carthage, Ind. A.B., Earlham College, 1887. Teacher of Latin in Friends' Academy, Bloomingdale, Ind., 1888–89; Michigan University, 1889-91, and A.M., 1890; Instructor in History of Philosophy, Mt. Holyoke College, 1892–93; Tutor in History, Wellesley College, 1893–94.

MARCELLA I. O'GRADY, ... *Fellow in Biology*, 1887–89

Boston, Mass. S.B., Massachusetts Institute of Technology, 1885. Teacher of Science in The Bryn Mawr School, Baltimore, Md., 1885–87; Demonstrator in Biology, Bryn Mawr College, 1887-89; Associate Professor of Biology, Vassar College, 1889–94.

HARRIET RANDOLPH, ... *Fellow in Biology*, 1889–90.

Philadelphia, Pa. A.B., Bryn Mawr College, 1889. University of Zürich, 1890–92; Ph.D., University of Zürich, 1892; Demonstrator in Biology and Reader in Botany, Bryn Mawr College.

LUCY M. SALMON, ... *Fellow in History*, 1886–87.

Fulton, N. Y. A.B., University of Michigan, 1876, and A.M., 1883. Teacher of History in the Indiana State Normal School, 1883–86; Associate Professor of History, Vassar College.

SARAH E. SATTERTHWAITE LESLIE,* *Fellow in Greek*, 1886–87.

Marine City, Mich. A.B., University of Michigan, 1886.

HANNAH ROBIE SEWALL, ... *Fellow in History*, 1888–89.

St. Paul, Minn. A.B., University of Minnesota, 1884; A.M., University of Michigan, 1887. Fellow by Courtesy in History, Bryn Mawr College, 1889–90; Assistant in Political Science and Rhetoric, University of Minnesota.

EFFIE A. SOUTHWORTH, ... *Fellow in Biology*, 1885–86.

North Collins, N. Y. S.B., University of Michigan, 1885. Student-Assistant in the Biological Laboratory, Bryn Mawr College, 1886–87; Assistant Mycologist of the United States Agricultural Bureau, Washington, D. C., 1887–92; Assistant in Botany, Barnard College, 1892–94.

ANNE A. STEWART, ... *Fellow in Mathematics*, 1886–87.

West Bay, Nova Scotia. Studied in University College, London, 1880–82; B.Sc., Dalhousie College, Halifax, Nova Scotia, 1886. Teacher of Mathematics in Miss Mary E. Stevens' School, Germantown, Pa., 1887–93; Student in Mathematics and Physics, Newnham College, University of Cambridge, England, 1893–94.

MARGUERITE SWEET, ... *Fellow in English*, 1891–92.

Albany, N. Y. A.B., Vassar College, 1887; Graduate Student, Bryn Mawr College, 1889–90, and Graduate Scholar, 1890–91; Ph.D., Bryn Mawr College, 1892; Instructor in English, Vassar College, 1892–94.

ESTHER B. VANDEMAN, ... *Fellow in Latin*, 1892–93.

Ann Arbor, Mich. A.B., University of Michigan, 1891, and A.M., 1892. Instructor in Latin, Wellesley College, 1893–94.

AGNES MATHILDE WERGELAND, ... *Fellow in History*, 1890–91.

Christiania, Norway. Studied under the direction of Prof. Konrad Maurer, Münich, 1884–86; University of Zürich, 1888–90; Ph.D., University of Zürich, 1890; Reader in History of Art, Bryn Mawr College, 1891–93.

MARY FRANCES WINSTON, ... *Fellow in Mathematics*, 1891–92.

Forreston, Ill. A.B., University of Wisconsin, 1889. Teacher of Mathematics, Downer College, Wisconsin, 1889–91; Student in Mathematics, University of Göttingen, 1893–94.

* Mrs. Francis Alexander Leslie, 1890.

ELLA C. WILLIAMS, ... *Fellow in Mathematics*, 1885–86.

Watkins, N. Y. A.M., University of Michigan, 1880. Studied under Professor Schwarz of Göttingen, nineteen months, 1883–85; in residence at Newnham College during the spring term of 1884; Teacher of Mathematics in Miss Moses' School, New York City, 1886–87; Teacher in State Normal School, Plymouth, N. H.

IDA WOOD, ... *Fellow in English*, 1888–89.

Philadelphia, Pa. A.B., Vassar College, 1877, and A.M., 1889. Graduate Student in English, Bryn Mawr College, 1887–88; Fellow by Courtesy in English, Bryn Mawr College, 1890–91; Ph.D., Bryn Mawr College, 1891; Secretary of the Woman's Department of the University of Pennsylvania, 1892–93.

Former Graduate Students.

EMMA BAIN SWIGGETT.* *English*, 1889–90.

Martinsville, Ind. A.B., Indiana State University, 1889.

HELEN BARTLETT, ... *English and German*, 1892–93.

Peoria, Ill. Newnham College, 1889; studied in Berlin, 1882–84, and 1890; A.B., Bryn Mawr College, 1892, and A.M., 1893. Fellow in English, Bryn Mawr College, 1893–94.

MARIA VOORHEES BEDINGER, ... *Chemistry and Physics*, 1892–93.

Anchorage, Ky. A.B., Bryn Mawr College, 1891. Teacher in Bellewood Seminary, Anchorage, Ky., 1891–92; Teacher of Mathematics in Mrs. E. L. Head's School, Germantown, Pa., 1892–94.

ETHEL B. BLACKWELL, ... *Biology*, 1891–92.

Somerville, N. J. S.B., Massachusetts Institute of Technology, Biological Department, 1891. Student, Woman's Medical College of the New York Infirmary, 1892–94.

JESSIE BREVITT, ... *Chemistry and Physiology*, 1889–90.

Baltimore, Md. M.D., Woman's Medical College, Baltimore, 1889. Lecturer on Chemistry, Woman's Medical College, Baltimore, 1890–93; Chief of Eye and Ear Clinic, Woman's Medical College, Baltimore, 1893–94.

JEANNETTE S. BROWN, ... *Greek*, 1886–87.

Concord, Mass. Graduate Harvard Annex, 1885. Teacher of Greek and Latin in The Brearly School, New York City.

HARRIET MAY BUDD, ... *English*, 1892–93.

Syracuse, N. Y. A.B., Syracuse University, 1891. Student in Music, Syracuse University, 1893–94.

EMILY LOUISA BULL, ... *Chemistry and Biology*, 1891–92.

Oneonta, N. Y. A.B., Bryn Mawr College, 1891. Teacher of Science in Miss Mary E. Stevens' School, Germantown, Pa., 1892–94.

MARTHA BUNTING, ... *Biology*, 1891–93.

Philadelphia, Pa. B.L., Swarthmore College, 1882. University of Pennsylvania, 1888–91; Assistant in Biology, Women's College, Baltimore, Md., 1893–94.

ANNA B. CARROLL, ... *English and History*, 1888–90.

Wilmington, O. A.B., Wilmington College, 1887. Teacher of English, Friends' School, Providence, R. I.

JEANETTE E. CARTER, ... *Biology*, 1891–92.

Mt. Harmony, West Va. B.Ph., Adrian College, Mich., 1889. Instructor in Botany and Zoölogy, Adrian College, 1889–90; Teacher of Mathematics, M.C. Female Institute, Jackson, Tenn., 1893–94.

EVA ST. CLAIR CHAMPLIN, ... *English*, 1891–92.

Alfred Centre, N. Y. L.B., Alfred University, 1887, and Lit.M., 1888. Graduate Student, New York State Library School, 1889–90; Librarian and Acting Instructor in English Literature, Alfred University, N. Y., 1890–91, 1892–93; Librarian New Britain State Normal School, New Britain, Conn., 1893–94.

* Mrs. Glen Levin Swiggett.

MARY E. CHISHOLM, ... *English*, 1891–92.

Chisholm, Io. A.B., Drake University, Iowa, 1890.

KATE HOLLADAY CLAGHORN, ... *Political Science*, 1892–93.

Brooklyn, N. Y. A.B., Bryn Mawr College, 1892. Graduate Student in Political Science, Yale University, 1893–94.

MABEL PARKER CLARK, ... *English and French*, 1890–93.

New York City. A.B., Bryn Mawr College. 1889. Fellow in English, Bryn Mawr College, 1889–90; A.M., Bryn Mawr College, 1890. Reader in English, Bryn Mawr College, 1890–93; Graduate Student in French and English, Columbia University, 1893–94.

EDITH DENISE. *German and French*, 1889–90.

Burlington, Io. B.L., Lake Forest University, 1885. Instructor in German and French, Iowa College, Grinnell, Io., 1892–94.

JESSIE K. DEWELL, ... *Greek, German, and Italian*, 1892–93.

New Haven, Conn. A.B., Vassar College, 1883.

MARGARET EASTON, ... *English*, 1891–92.

Philadelphia, Pa. A.B., Pennsylvania College for Women, 1891.

ANNIE CROSBY EMERY, ... *Greek and Latin*, 1892–93.

Ellsworth, Me. A.B., Bryn Mawr College, 1892. Holder of the Bryn Mawr European Fellowship for 1892–93; Student in Classics, University of Leipsic, 1893–94.

AGNES EMORY, ... *Greek and Latin*, 1886–87.

Lawrence, Kan. A.B., University of Kansas, 1884.

MAE J. EVANS, ... *English*, 1893–94.

Oskaloosa, Io. Ph.B., Penn College, Iowa, 1890.

SUSAN BRALEY FRANKLIN, ... *Greek and Latin*, 1890–91, 1892–93.

Newport, R. I. A.B., Bryn Mawr College, 1889. Fellow in Greek, Bryn Mawr College, 1889–90; and Fellow by Courtesy in Greek, 1891–92. Holder of the American Fellowship of the Association of Collegiate Alumnæ 1892–93; Instructor in Latin, Vassar College, 1893–94.

MARY L. FREEMAN, ... *Romance Languages*, 1885–87.

Mumford, N. Y. A.B., Vassar College. 1881, and A.M., 1887. Teacher of German and French, State Normal School, New Paltz, New York.

MARY EASTMAN GALE, ... *Latin and Mathematics*, 1888–90.

Laconia, N. H. A.B., Swarthmore College, 1882, and A.M., 1891. Teacher of Latin in Miss Florence Baldwin's School. Bryn Mawr, Pa., 1889–91; Teacher of Latin in Mrs. E. L. Head's School, Germantown, Pa., 1889–93.

GRACE GODDARD RICH,* *English*, 1891–92.

Muncie, Ind. B.L., Earlham College, 1891.

MARY GWINN, ... *English*, 1887–88.

Baltimore, Md. University of Leipsic, 1879–82; University of Zürich, 1882; Sorbonne and the Collège de France, 1883; Fellow in English, Bryn Mawr College, 1885–87; Ph.D., Bryn Mawr College, 1888; Associate Professor of English, Bryn Mawr College.

MARY HAINES, ... *Greek and English*, 1891–92.

Grinnell, Io. A.B., Iowa College, 1890. Instructor in Greek and Latin, Iowa College Academy, Grinnell, Io. 1892–94.

FLORENCE HALL, ... *Gothic, Middle High German, and Spanish*, 1888–89.

Swarthmore, Pa. A.B., Swarthmore College, 1880. Teacher of German, Friends' Central School, Philadelphia.

FRANCES HARDCASTLE, ... *Mathematics*, 1892–93.

London, England. Girton College, University of Cambridge, England, 1888–92; Mathematical Tripos, 1891; Part II., 1892; Honorary Fellow in Mathematics, University of Chicago, 1893–94.

MIRIAM ALICE HARRISON, ... *English, History, and Political Science.*

Richmond, Ind. A.B., Earlham College, 1892.

* Mrs. Corydon M. Rich, 1893.

SUSAN RACHEL HARRISON JOHNSON,* *Greek and Latin*, 1885–87.

Richmond, Ind. A.B., Earlham College, 1883; A.M., Ann Arbor, 1889. Professor of Greek, Earlham College, 1889–93.

CAROLINE E. HILLIARD, ... *Chemistry*, 1885–86.

Northboro', Mass. A.B., Smith College, 1883.

MARCELLA HOWLAND, ... *English and French*, 1891–92.

Lawrence, Kan. A.B., Kansas State University, 1890.

IDA H. HYDE, ... *Biology*, 1891–92.

Chicago, Ill. S.B., Cornell University, 1891. Student Assistant in Biology, Bryn Mawr College, 1891–92; Fellow in Biology, Bryn Mawr College, 1892–93; Holder of European Fellowship of Association of Collegiate Alumnæ, 1893–94; Student in Biology, University of Strasburg, 1893–94.

ALICE W. JACKSON, ... *History and Political Science*, 1888–89.

Germantown, Pa. A.B., Swarthmore College, 1883.

HELEN HOWARD JEFFRIES, ... *Latin and Political Science*, 1889–90.

Wooster, O. Ph.B., Wooster College, 1889, A.M., 1890, and Ph.D., 1893.

MARY A. JOHNSON, ... *Biology*, 1887–89.

New York City. L.B., Smith College, 1885, and A.M., 1888. Newnham College, University of Cambridge, England, 1886–87; Holder of Scholarship at the Woman's Medical College, Philadelphia, 1889–92; M.D., 1892; Assistant in Dispensary, and Student, Philadelphia Post-Graduate School of Homœopathics, 1892–94; Resident Physician, College Settlement, Philadelphia, 1892–94.

ROSA ELLEN LEWIS, ... *English*, 1888–89.

Oskaloosa, Io. S.B., Penn College, Iowa, 1882, and A.M., 1885. Professor of English Literature and History, Penn College, Iowa.

SARAH ELVA LEWIS COX,† *English and History*, 1888–89.

Estacado, Tex. S.B., Penn College, Iowa, 1883. Superintendent of Schools, Estacado, Texas, 1889–92.

MARIAN WILHELMINA MACINTOSH, . . *Graduate Scholar in Greek*, 1890–91.

Philadelphia, Pa. A.B., Bryn Mawr College, 1890.

ADA ISABEL MADDISON, ... *Mathematics*, 1892–93.

Reading, England. University of South Wales and Monmouthshire, 1885–89; Girton College, University of Cambridge, England, 1889–92; Mathematical Tripos, 1892; Oxford Greats, 1892; B.Sc., University of London, Mathematical Honors, 1893; Fellow in Mathematics, Bryn Mawr College, 1893–94.

GERTRUDE W. MENDENHALL, ... *Mathematics*, 1891–92.

New Garden, N. C. B.S., Wellesley College, 1885. Professor of Mathematics, State Normal and Industrial School, Greensboro, N. C.

KATHARINE MERRILL, ... *English*, 1889–90.

Abilene, Kan. A.B., Kansas State University, 1889. Fellow in English, Bryn Mawr College, 1890–91; Harvard Annex, 1891–92; Instructor in English, University of Illinois, 1892–94.

MARY ELIZABETH MILLER, ... *English and German*, 1890–91.

Beaver Falls, Pa. B.S., Geneva College, 1890.

ELEANOR HEISTAND MOORE, ... *Chemistry and Biology*, 1890–93.

Philadelphia, Pa. Vassar College, 1876–78; M.D., Woman's Medical College of Pennsylvania, 1890. Demonstrator of Chemistry in the Woman's Medical College of Pennsylvania.

GEORGIANA LEE MORRILL, ... *English*, 1888–89.

Germantown, Pa. A.B., Vassar College, 1882, and A.M., 1889.

FLORA ALICE NEWLIN, ... *History and Political Science*, 1890–91.

Lawrence, Kan. A.B., Kansas State University, 1889. Assistant in Mathematics, Lawrence High School.

* Mrs. Allen Clifford Johnson, 1893.

† Mrs. M. M. Cox, 1893.

JULIA BARLOW PLATT, ... *Biology*, 1888–89.

Burlington, Vt. Ph.B., University of Vermont, 1882. Harvard Annex, 1886–88; Biological Station, Naples, 1891; University of Freiburg-in-Baden, 1891–92.

SARAH M. POTTER PAINE,* *English and History*, 1886–87.

Glens Falls, N. Y. A.B., Wellesley College, 1884.

HARRIOT C. REITZE, ... *Mathematics*, 1890–93.

Meadville, Pa. A.B., Allegheny College, 1887. Teacher of Mathematics, Miss Mary E. Stevens' School, Germantown, Pa., 1893–94.

SOPHIE S. REYNOLDS, ... *English, French, and Political Science*, 1892–93.

Alfred Centre, N. Y. Alfred University, 1888–92.

ZILLAH M. SHERMAN, ... *English*, 1887–88.

Ashtabula, O. A.B., Wells College, 1882. University of Michigan, 1888–89; University of Chicago, 1893–94.

ANNA MORSE STARR, ... *Latin*, 1889–90.

Elyria, O. B.L., Ohio Wesleyan University, 1887.

STELLA BURGER STEARNS, . . . *History and Political Science*, 1892–93.

Duluth, Minn. A.B., University of Minnesota, 1892.

MARGUERITE SWEET, ... *English*, 1889–91.

Albany, N. Y. A.B., Vassar College, 1887. Fellow in English, Bryn Mawr College, 1891–92; Ph.D., Bryn Mawr College, 1892. Instructor in English, Vassar College, 1892–94.

MARY KINGSLEY TIBBETTS, ... *English*, 1889–90.

Fredericton, New Brunswick. A.B., University of New Brunswick, 1889. Principal of the Gagetown Grammar School, New Brunswick.

BESSIE C. TODHUNTER, ... *Greek and Latin*, 1889–90.

Wilmington, O. A.B., Wilmington College, 1889. Teacher in Martin Academy, Kennett Square, Pa.

MARY TREMAIN, ... *English and History*, 1886–87.

Lincoln, Neb. S.B., Nebraska State University, 1881. Instructor in History, University of Nebraska.

CLARA WALTON, ... *English and Mathematics*, 1892–93.

Cleveland, O. B.S., Wellesley College, 1890.

ARLETTA F. WARREN, ... *Latin and English*, 1891–92.

Wooster, O. Ph.B., Wooster University, 1889. Teacher in Beaver Dam High School, Wisconsin, 1889–91.

FLORENCE MEHITABEL WATSON, ... *Latin*, 1889–90.

Northfield, Minn. B.L., Carleton College, 1887, and M.L., 1890. Teacher of Latin and History in the High School, Bristol, Conn.

IDA WOOD, ... *English*, 1887–88.

Philadelphia, Pa. A.B., Vassar College, 1877, and A.M., 1889. Fellow in English, Bryn Mawr College, 1887–88; Fellow by Courtesy in English, Bryn Mawr College, 1890–91; Ph.D., Bryn Mawr College, 1891; Secretary of the Woman's Department of the University of Pennsylvania, 1892–93.

EMILY F. WHEELER, . . . *Graduate Scholar in Romance Languages*, 1887–88.

Rockford, Ill. A.B., Northwestern University, 1875, and A.M., 1880. Professor of Romance Languages in the Northwestern University.

ELLEN C. WRIGHT, ... *Latin and English*, 1888–89.

Wilmington, O. A.B., Wilmington College, 1875. Teacher of Latin and English, Wilmington College.

* Mrs. Howard Simmons Paine, 1890.

Former Undergraduates that have not taken their Degrees.

EDITH AMES, ... *Group, History and Political Science,* 1891–93.
Highlands, N. J. Prepared by Miss Emily L. Bull and by private study.

GERTRUDE ALLINSON, ... *Group, English and German,* 1885–87.
Beverly, N. J. Prepared by Friends' School, Providence, R. I.

ELEANOR ANNE ANDREWS, . . . *Hearer in English and German,* 1889–90.
Hampstead, England. Newnham College, University of Cambridge, England, 1879-81.

ETHELWYN MORRILL ATWATER, . . *Group, Chemistry and Biology,* 1887–89.
Millville, N. J. Prepared by Friends' Central School, Philadelphia, and by private study.

SOPHIA MEAD ATWATER, ... *Group,* ———, 1886–88.
Millville, N. J. Prepared by private study.

EMMA DOLL BAILEY SPEER,* *Group, Greek and Latin,* 1890–92.
Harrisburg, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

SUSAN A. BALDWIN, ... *Hearer in Latin and Political Science,* 1891–93.
Milford, Conn. Prepared by Temple Grove, Saratoga, N. Y., and by private study.

ANTOINETTE LOUISE BANCROFT PIERCE,† . . . *Group, German and French,* 1888–89.
Waterbury, Conn. Special Student, Smith College, 1883–86.

JESSIE ELLEN BARRITT, . . . *Group, History and Political Science,* 1888–93.
Croydon, England. Prepared by Sidcot School, Somersetshire, England, and The Mount School, York, England.

EMMA JOSEPHINE BATTERSBY, . *Group, History and Political Science,* 1886–89.
Bryn Mawr, Pa. Prepared by Wellesley Preparatory School, Philadelphia.

LILLIE BIRCH, ... *Group, Greek and Latin,* 1887–92.
Philadelphia, Pa. Prepared by private study.

MARY BOUDE, ... *Group, History and Political Science,* 1892–93.
Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md.

EDNA ALWILDA BOWMAN, ... *Group,* ———, 1890–91.
San José, Cal. University of the Pacific, 1885–89. Prepared by Miss Mary E. Stevens' School, Germantown, Pa., and by private study.

NELLIE BRIGGS, ... *Special Student in Latin and German,* 1890-91.
Grinnell, Io. Iowa College, 1882–87.

ELIZABETH BARTRAM CADBURY, ... *Group,* ———, 1892–93.
Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

JOSEPHINE G. CAREY THOMAS,‡ *Biology,* 1885–86.
Baltimore, Md. Prepared by Miss Reinhardt's School, Baltimore, Md.

LUCY EDITH CHASE BOORUM,⁇ . . *Special Student in Latin and Mathematics,* 1888–89.
Brooklyn, N. Y. Prepared by Packer Collegiate Institute, Brooklyn, N. Y. Teacher of Mathematics, Packer Collegiate Institute, Brooklyn, N. Y., 1889–93.

SUE SHIRLEY CHENAULT WATKINS,‖ *Biology and Political Science,* 1890–91.
Louisville, Ky. Wellesley College, 1886–87.

* Mrs. Robert Elliot Speer, 1893.
† Mrs. Wilson H. Pierce, 1889.
‡ Mrs. Henry M. Thomas, 1889.
⁇ Mrs. William Burger Boorum, 1893.
‖ Mrs. Benjamin Franklin Watkins, 1894.

CORA MOTT CHILD, ... *Group, Greek and Latin*, 1887–88.
Chateaugay, N. Y. Classical Course, University of Vermont, 1885–87.

ANNA VERPLANCK CLAPP, ... *Special Student in Latin*, 1891–92.
Albany, N. Y. Prepared by Albany High School.

ELIZABETH M. CLARK, ... *Group, English and German*, 1890–91.
New York City. Wells College, 1889–90; University of Zürich, 1892–93.

ZELMA ESTELLE CLARK, ... *Group*, ———, 1892–93.
Kalamazoo, Mich. Wells College, 1887–88.

OLIVIA SUSAN CLEMENS, ... *Group*, ———, 1890–91.
Hartford, Conn. Prepared by private study.

ELISA COATES, ... *Group*, ———, 1890–91.
Philadelphia, Pa. Prepared by Miss Irwin's School, Philadelphia.

CLARA BEAUMONT COLTON, ... *Group, Chemistry and Biology*, 1892–93.
Salt Lake City, Uh. Prepared by Miss Case and Miss Hallowell's School, Philadelphia.

MARY HORA CONNELLY, . *Hearer in English, German, and History*, 1892–93.
Albany, Ga. Swarthmore College, 1878–80. Brooklyn Normal School for Physical Education, 1891–92. Assistant in Gymnasium, Bryn Mawr College, 1892–93.

LISA BAKER CONVERSE, ... *Group, Greek and German*, 1891–93.
Riverton, N. J. Prepared by The Bryn Mawr School, Baltimore, Md., and by private study.

ELIZABETH COOKE, ... *Biology*, 1890–91.
Cedar Rapids, Io. Coe College, 1884–88; University of Michigan, 1888–90; Student Assistant in Biology, Bryn Mawr College, 1890–91.

LOUISE DUDLEY DAVIS, ... *Group, Chemistry and Biology*, 1891–93.
Maplewood, N. J. Prepared by Dearborn-Morgan School, Orange, N. J.

LILIAN DIXON, ... *Special Student in History and Physics*, 1888–89.
Devon, Pa. Special Student, Wellesley College, 1886–88. Junior Principal, Ashby Hall, Springfield, Mass., 1893–94.

ANABEL DOUGLAS, ... *Hearer in English and History*, 1889–90.
Rochester, N. Y. Prepared by Geneseo Normal School, N. Y. Newnham College, University of Cambridge, England, 1890–93.

MARGARET DUDLEY, ... *Group, German and French*, 1889–92.
Topeka, Kan. Washburn College, Topeka, Kansas, 1887–89.

GRACE A. ELDER, ... *Group, Latin and Mathematics*, 1889–93.
Philadelphia, Pa. Prepared by Wellesley Preparatory School, Philadelphia, and by private study.

HELEN ERBEN, ... *Hearer in English and German*, 1887–89.
Radnor, Pa. Prepared by private study.

LYDIA SOPHIA FERGUSON, ... *Hearer in Greek and Latin*, 1888–89.
Belfast, Me. Prepared by E. R. Humphreys, LL.D., Boston, Mass., and by private study.

S. GWENDOLEN FOULKE, ... *Hearer in Biology*, 1888–89.
Philadelphia, Pa. Prepared by Mr. and Mrs. L. M. Johnson's School, Philadelphia.

FRANCES BIDDLE GARRETT, ... *Group, Chemistry and Biology*, 1885–87.
Logan P. O., Philadelphia, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

MARY RHOADS GARRETT, ... *Group*, ———, 1885–87, 1889–90.
Rosemont, Pa. Prepared by Miss Rachel Ashbridge's School, Philadelphia.

LEONIE GILMOUR, ... *Group, Chemistry and Biology*, 1891–93.
New York City. Prepared by The Bryn Mawr School, Baltimore, Md.

ANNETTE L. HALL, ... *Group, Greek and Latin*, 1890–93.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by private study.

JANE HOWELL HARRIS, ... *Group, Chemistry and Biology*, 1891–93.
Montclair, N. J. Prepared by High School, Montclair, N. J.

ELIZABETH CARI HENCH, ... *Group*, ———1890–92.
Carlisle, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa. Student, University of Michigan, 1893–94.

LAURA WOOLSEY HEERMANCE, ... *Group*, ———, 1892–93.
New Haven, Conn. Prepared by private study.

BESSIE ROBBINS HOOKER, ... *Group, English and French*, 1892–93.
Winter Park, Fla. Rollins College, Winter Park, Fla., 1885–92.

MARY ELOISE HOWARD, ... *Group, Latin and Mathematics*, 1889–91.
Norfolk, Va. Prepared by The Leache-Wood School, Norfolk, Va.

EMILY CUMMING HOWE, ... *Group, Greek and German*, 1887–89.
Princeton, N. J. Prepared by Mr. J. R. Bishop, Princeton, N. J.

ANNA HARRIS HOY, ... *Group, History and Political Science*, 1885–87.
Bellefonte, Pa. Prepared by Bellefonte Academy.

NELLIE MAY HULBERT, ... *Group*, ———, 1890–91.
Elyria, O. Oberlin College, 1887–90.

JOSEPHINE JACKSON, ... *Group, Latin and German*, 1889–91.
Richmond, Va. Prepared by St. Timothy's School, Catonsville, Md. Teacher of Latin and English in Wilford School, Baltimore, Md.

ELIZABETH BRINTON JANNEY, ... *Hearer in Greek and Latin*, 1889–90.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by J. W. Fairies, D.D., Philadelphia.

MARY JEFFERS, ... *Group, Greek and Latin*, 1887–88, 1891–93.
Oil City, Pa. Classical Course, Wellesley College, 1885–86.

GRACE LLEWELLYN JONES, ... *Group*, ———, 1891–93.
San Francisco, Cal. Prepared by Miss West's School, San Francisco, Cal., and by private study.

HATTIE ELIZABETH JONES JACOB,* . . *Group, Greek and English*, 1888–90.
Amesbury, Mass. Prepared by Oak Grove Seminary, Vassalboro, Me., and by Miss Case and Miss Hallowell's School, Philadelphia. Teacher in Friends' Academy, Union Springs, N. Y., 1890–92.

KARIE K. KERSHAW, . . *Group, Greek and Latin*, 1886–87, 1888–89, 1891–92.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa.

CAROLYN KNOWLAND, ... *Hearer in Biology*, 1891–92.
Logan's Ferry, Pa. Woman's Medical College, Baltimore, Md., 1880–91.

JULIA OLIVIA LANGDON, . . *Group, History and Political Science*, 1891–93.
Elmira, N. Y. Prepared by Miss Annie Brown's School, New York City.

MARY R. LAWTHER, ... *Group, History and Political Science*, 1891–93.
Dubuque, Io. Prepared by High School, Dubuque, Iowa, and by Miss Mary E. Stevens' School, Germantown, Pa.

CAMILLA LEACH, ... *Hearer in English*, 1889–90.
San Francisco, Cal. Prepared by private study. Mistress Robles Hall, Leland Stanford, Jr. University.

MARY HUNTER LINN, ... *Group, Latin, Italian and Spanish*, 1887–89.
Bellefonte, Pa. Prepared by Bellefonte Academy.

* Mrs. Charles Richard Jacob, 1892.

ANNIE LAURIE LOGAN EMERSON,* . . . *Group, Greek and Latin*, 1889–90.
St. Louis, Mo. Prepared by private study. Newnham College, University of Cambridge, England, 1890-91.

KATHARINE LURMAN, ... *Group*, ———, 1891–92.
Catonsville, Md. Prepared by St. Timothy's School, Catonsville, Md.

GERTRUDE MASON LYNCH, . . *Group, History and Political Science*, 1887–90. 1891–92.
Washington, D. C. Prepared by Girls' Classical School, Indianapolis, Ind.

BELLA MABURY, ... *Group*, ———, 1890–91.
San José, Cal. University of the Pacific, 1884–89.

KATHLEEN R. MACFARLANE, . . *Hearer in Mathematics and Physics*, 1889–90.
Rosemont, Pa. Prepared by private study.

MARY LOUISE MACMILLAN, ... *Group*, ———, 1890–91.
Cincinnati, O. Wells College, 1888-90.

MARGARETTA CAMERON MACVEAGH, . *Group, History and Political Science*, 1890–93.
Philadelphia, Pa. Prepared by Miss Rose Chamberlin, Miss Luella H. Thorne, Miss Edith Child, and Miss Jane L. Brownell, of Bryn Mawr College.

ELLA LAURA MALOTT, ... *Group, Physics and Chemistry*, 1891–93.
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis. Ind., and by private study.

MARY ROCKWITH MARTIN, ... *Group, Greek and Latin*, 1890–93.
Ardmore. Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

M. MCCLURE MCKEEHAN, ... *Group*, ———, 1892–93.
Carlisle, Pa. Prepared by Miss Dexter, Metzger Institute, Carlisle, Pa.

CHARLOTTE FRELINGHUYSEN MCLEAN, ... *Group*, ——— 1892–93.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, by Miss Sandford's School, Philadelphia, and by Professor R. H. Chase.

ELISABETH HORNLI MIFFLIN, ... *Group, English and*———, 1890–93.
Wayne, Pa. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

MARY ELIZABETH MILES, ... *Group, Greek and Latin*, 1888–89.
Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. Principal of private school, Germantown, Pa.

HANNAH IRENE MOORE, ... *Group*, ———, 1890–93.
Philadelphia, Pa. Prepared by Miss Cooper's School, Philadelphia, and by private study.

ELLEN KEY HOWARD MORGAN, ... *Group*, ———, 1892–93.
Lexington, Ky. Prepared by State College of Kentucky, and by private tuition.

CAROLYN LADD MOSS, ... *Group, History and Political Science*, 1890–93.
Ottumwa, Io. Prepared by Miss Florence Baldwin's School, Bryn Mawr, Pa.

ELISE LUCY OGDEN, ... *Group, Chemistry and Biology*, 1891–92.
Knoxville, Tenn. Prepared by Miss Ogden, and by Girls' High School, Louisville. Ky. Special Student, University of Tennessee, 1893-94.

AGNES LOUISE ORBISON, ... *Group, Physics and Biology*, 1886–88.
Bellefonte, Pa. Prepared by Bellefonte Academy. Missionary in Laharapur, India.

ELIZABETH MARSHALL PALMER, . . . *Group, English and German*, 1892–93.
Madison, Wis. University of Wisconsin, 1890-92, 1893-94.

* Mrs. Oliver Farrar Emerson, 1891.

GRACE PARRISH, ... *Group*, ———, 1890-91.
Radnor, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia, and by Miss Florence Baldwin's School, Bryn Mawr, Pa. Students' Art League, New York City, 1891-93; Student at Philadelphia Academy of Fine Arts, 1893-94.

ANNE RUTHERFORD PEARSON WARNER,* . *Group, Mathematics and Physics*, 1892-93.
Ithaea, N. Y. Cornell University, 1888-90; Fall term, 1890-91; Spring term, 1891-92.

KATE O. PETERSON, ... *Group, Latin and* ———, 1888-89.
Brooklyn, N. Y. Prepared by Packer Collegiate Institute, Brooklyn, N.Y. A.B., Vassar College, 1890. Teacher in Packer Collegiate Institute, Brooklyn, N. Y.

ADELINE MAYO RICHARDS, ... *Group*, ———-, 1890-91.
Elizabeth, N. J. Prepared by Miss Randolph's School, Baltimore, Md., and by Mr. Young, Elizabeth, N. J.

ANNA CUSHMAN ROBBINS, ... *Group*, ———, 1891-93.
Wethersfield, Conn. Prepared by High School, Hartford, Conn.

MILDRED M. ROELKER, . . . *Group, History and Political Science*, 1890-92.
Washington, D. C. Prepared by High School, Washington, D. C.

HELEN KUNKLE ROSS, ... *Group, Latin and* ———-, 1890-92.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. Art Student, Drexel Institute, Philadelphia, 1893-94.

THEODOSIA ROSALIE RUPLI, ... *Group, Greek and Latin*, 1890-91.
Washington, D. C. Prepared by High School, Washington, D. C.

FLORENCE RUSHMORE HUSSEY,† *Group*, ———, 1885-86.
Plainfield, N. J. Prepared by Friends' School, Providence, R. I.

MARY JOHNSON SACKETT, ... *Group, Chemistry and Biology*, 1888-91.
Brooklyn, N. Y. Prepared by Adelphi Academy, Brooklyn, N.Y., and by private study.

HARRIET FELL SEAL, ... *Hearer in Greek and French*, 1889-91.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by private study. Teacher of French in Ogontz School, Ogontz, Pa.; Teacher of French, Miss Florence Baldwin's School, Bryn Mawr, Pa.

ANNA PEIRCE SHOEMAKER FERRIS,‡ *Group, Chemistry and Biology*, 1887-89.
Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia. University of Pennsylvania, 1889-91.

MARGARET ARMSTRONG STEEL, *Group, History and Political Science*, 1886-89.
Port Deposit, Md. Prepared by private study. Student in History, University of Pennsylvania, 1893-94.

ESTHER CLARKSON MAYER STEELE, . . *Group, Greek and French*, 1891-92.
Philadelphia, Pa. Prepared by Miss Cooper's School, Philadelphia.

ELIZA PULLAN STEPHENS, ... *Group, Latin and French*, 1888-90.
Trenton, N. J. Prepared by Friends' Central School, Philadelphia, and by private study.

LOUISA BRIER STEPHENS, ... *Group*, ———, 1889-90.
Cedar Rapids, Io. Prepared by George J. Brown and Mr. Alonzo Brown, Philadelphia.

MARY STEPHENS, ... *Group, Chemistry and Biology*, 1887-90.
Cedar Rapids, Io. Prepared by Coe Preparatory School and College, Cedar Rapids, Iowa.

ELEANOR JANE STEVENSON, . *Special Student in German and History*, 1886-87.
Pittsburgh, Pa. Graduate of Pennsylvania Female College, 1886.

* Mrs. Robert Lyon Warner, 1893.
† Mrs. William T. Hussey, 1892.
‡ Mrs. Alfred J. Ferris, 1891.

ANNA VAUGHAN SWIFT, ... *English and Chemistry*, 1887–89.
Wilmington, Del. Prepared by Miss E. D. Fraser's School, Wilmington, Del., and by Mr. W. A. R. Reynolds, Wilmington, Del.

FRANCES DORR SWIFT, ... *Group, Latin and English*, 1891–93.
Wilmington, Del. Prepared by the Misses Hebb's School, Wilmington, Del., and by Mr. W. A. R. Reynolds, Wilmington, Del.

BERTHA ANNA TAYLOR, ... *Group*, ——, 1892–93.
Sewickley, Pa. Prepared by Rev. Mr. Benton, Sewickley, Pa., and by private study.

MARION SATTERTHWAITE TAYLOR, . . *Group, History and Political Science*, 1890–92.
Sewickley, Pa. Prepared by Westtown Boarding School, and by private study.

MARY GRACE THOMAS WORTHINGTON,* . . . *Group, History and Political Science*, 1885–87.
Baltimore, Md. Prepared by Mr. Christie, Graduate Student, Johns Hopkins University.

SUSAN EVERETT THROOP, ... *Group, Latin and English*, 1890–91.
Worcester, Mass. Prepared by Mrs. Throop's School, Worcester, Mass. Harvard Annex, 1891–92. Teacher of Latin and Mathematics in Mrs. Throop's School, Worcester, Mass., 1892–94.

LILLIA M. D. TRASK, ... *Group*, ——, 1891–93.
New Brighton, Staten Island, N. Y. Prepared by Staten Island Academy, and by private study.

UMÉ TSUDA, ... *Special Student in Biology*, 1889–92.
Tokio, Japan. Teacher in Peeresses' School, Tokio, Japan.

RUTH UNDERHILL, . . . *Special Student in Mathematics and Physics*, 1892–93.
New York City. Prepared by private study.

EMMA PHILIPS VAN NORDEN, ... *Group, Greek and Latin*, 1889–90.
New York City. Prepared by The Brearley School, New York City, and by private study. Salvation Army worker, 1893–94.

ANNIE DE BENNEVILLE WAGNER, ... *Group*, ——, 1888–90.
Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa.

MARGARET COOPER WHITALL,† . . *Group, Chemistry and Biology*, 1885–88.
Germantown, Pa. Prepared by Miss Lily White's School, Germantown, Pa.

AGNES MARY WHITING, ... *Group, Greek and German*, 1888–93.
Springfield, Mass. Prepared by Miss Catharine L. Howard's School, Springfield, Mass.

ELLEN A. WINSLOW, ... *Group, History and Political Science*, 1887–89.
Westbrook, Me. Prepared by Friends' School, Providence, R. I., and by private study. First Assistant in Westbrook High School, Westbrook, Me.

Students that have taken their Degree at Bryn Mawr College.

MADELINE VAUGHAN ABBOTT, ... *Group, Greek and Latin.*
Cambridge, Mass. Prepared by Cambridge Latin School, Cambridge, Mass. Harvard Annex, 1891–92. A.B., 1893. Secretary to the Dean, Bryn Mawr College, 1893–94.

ELIZA RAYMOND ADAMS, ... *Group, History and Political Science.*
Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind., and by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1894.

* Mrs. Thomas K. Worthington, 1888.

† Deceased, January, 1891.

ALICE HOPKINS ALBRO, ... *Group, Chemistry and Biology.*

Fredonia, N. Y. Prepared by Fredonia State Normal School, N. Y. A.B., 1890. Teacher of Science, High School, Dunkirk, N.Y., 1890-92; Teacher of Chemistry and Biology in the Packer Collegiate Institute, Brooklyn, N. Y.

HELEN CULBERTSON ANNAN, ... *Group, History and Political Science.*

New York City. Prepared by Mrs. Comegys' and Miss Bell's School, Chestnut Hill, Pa. A.B., 1891.

ALICE ELIZA ANTHONY, ... *Group, History and Political Science.*

South Manchester, Conn. Prepared by Friends' School, Providence, R. I. A.B., 1889.

EMILY FRANCES ANTHONY ROBBINS,* . *Group, History and Political Science.*

South Manchester, Conn. Prepared by Friends' School, Providence, R. I. A.B., 1889.

EMMA LOUISE ATKINS, ... *Group, Chemistry and Biology,* 1889–94.

Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind. A.B., 1894. Graduate Student in Chemistry, Bryn Mawr College, 1894.

SARAH FRANCES ATKINS, . . *Group, History and Political Science,* 1889–94.

Indianapolis, Ind. Classical Course, University of Michigan, 1887–88. A.B., 1894.

MARY JANNEY ATKINSON, ... *Group, Chemistry and Biology.*

Lahaska, Pa. Wellesley College, 1888-90. A.B., 1893.

EMILY GREENE BALCH, ... *Group, Greek and Latin.*

Jamaica Plain, Mass. Prepared by Miss Ireland's School, Boston, Mass. A.B., 1889. Holder of the Bryn Mawr European Fellowship, 1889-90; Student in Political Science, Collège de France and the Sorbonne, 1890-91.

HELEN BARTLETT, ... *Group, English and German.*

Peoria, Ill. Newnham College, University of Cambridge, England, 1889; studied in Berlin, 1882-84, and in 1890. A. B., 1892. Graduate Student in English, Bryn Mawr College, 1892-93; A.M., Bryn Mawr College, 1893; Fellow in English, Bryn Mawr College, 1893–94.

CATHERINE E. BEAN COX,† *Group, English and German.*

San José, Cal. Classical Course, University of the Pacific, San José, 1884–85. A.B., 1889. Teacher of English in the Academic Department of the University of the Pacific, San José, 1889-90.

MARIA VOORHEES BEDINGER, ... *Group, Mathematics and Physics.*

Anchorage, Ky. Prepared by Bellewood Seminary, Anchorage, Ky. A.B., 1891. Teacher in Bellewood Seminary, 1891-92; Teacher of Mathematics in Mrs. E. L. Head's School, Germantown, Pa., 1892-94; Gradnate Student in Physics and Chemistry, Bryn Mawr College, 1892-93.

ALICE BELIN, ... *Group, Latin and German.*

Scranton, Pa. Prepared by Miss Kate Hand, Scranton, Pa. A.B., 1892.

ELIZABETH MILLER BLANCHARD, ... *Group, Greek and Mathematics.*

Bellefonte, Pa. Prepared by Bellefonte Academy. A.B., 1889. Fellow in Mathematics, Bryn Mawr College, 1889-90. Teacher of Mathematics in The Bryn Mawr School, Baltimore, Md., 1891-92.

MARY MILES BLANCHARD, ... *Group, Chemistry and Biology.*

Bellefonte, Pa. Prepared by Bellefonte Academy. A.B., 1889.

JANE LOUISE BROWNELL, ... *Group, History and Political Science.*

Bristol, Conn. Prepared by High School, Hartford, Conn., and by private study. A.B., 1893. Fellow in History, Bryn Mawr College, 1893-94.

LOUISE SHEFFIELD BROWNELL, ... *Group, Greek and Latin.*

New York City. Prepared by Mrs. Griffitts' School, New York City. A.B., 1893. Holder of the Bryn Mawr European Fellowship, 1893-94; Student in Greek and English, University of Oxford, England, 1893–94.

* Mrs. Frederick Robbins, 1891.

† Mrs. Isaac M. Cox, 1891.

EMILY LOUISA BULL, ... *Group, Greek and Latin.*

Oneonta, N. Y. Prepared by Oneonta Union School. A.B., 1891. Graduate Student in Biology, Bryn Mawr College, 1891-92. Teacher of Science in Miss Mary E. Stevens' School, Germantown, Pa.

ESTHER F. BYRNES, ... *Group, Chemistry and Biology.*

Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia, and by private study. A.B., 1891. Assistant in Biological Laboratory, Vassar College, 1891-93; Garrett Scholar in Biology, Bryn Mawr College, 1893-94.

ELIZABETH MAXWELL CARROLL, ... *Group, Greek and Latin.*

Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md A.B., 1892. Teacher of Classics in Mrs. Alex. B. Randall's School, Baltimore, Md.

EDITH CHILD, ... *Group, Greek and Mathematics.*

Newport, R. I. Prepared by Dr. W. S. Child, Newport, R. I. A.B., 1890. Teacher of Latin and Mathematics in Miss Case and Miss Hallowell's School, and in Miss Judkin's School, Philadelphia, Pa.

KATE HOLLADAY CLAGHORN, ... *Group, Greek and Latin.*

Brooklyn, N. Y. Prepared by Mr. Caskie Harrison, Brooklyn, N. Y.; Passed examination covering the Freshman year in Columbia College, 1888–89. A.B., 1892. Graduate Student in Sociology, Bryn Mawr College, 1892-93; Graduate Student in Political Science, Yale University, 1893-94.

MABEL PARKER CLARK, ... *Group, Greek and English.*

New York City. Prepared by Miss Gibbons' School, New York City. A.B., 1889. Fellow in English. Bryn Mawr College, 1889-90; A.M., Bryn Mawr College, 1890; Reader in English, Bryn Mawr College, and Graduate Student in English and French, Bryn Mawr College, 1890-93; Graduate Student in English and French, Columbia College, 1893-94.

HELEN THEODORA CLEMENTS KIRK,* . *Group, History and Political Science.*

Philadelphia, Pa. Prepared by Ogontz School, Ogontz, Pa. A.B., 1892.

JULIA COPE, ... *Group, Chemistry and Biology.*

Philadelphia, Pa. Prepared by Miss Burnham's School, Northampton, Mass. A.B., 1889. Secretary of Bryn Mawr College, 1889-94.

HELEN CECILIA COALE CREWE,† *Group, Chemistry and Biology.*

Baltimore, Md. Prepared by Miss Pindell's School, Baltimore, Md. A.B., 1889.

LUCY MARTIN DONNELLY, ... *Group, Greek and Latin.*

Brooklyn, N. Y. Prepared by Adelphi Academy, Brooklyn, N. Y. A.B., 1893. Student in Greek and English, University of Oxford, England, 1893-94.

HELENA STUART DUDLEY, ... *Group, Chemistry and Biology.*

Denver, Col. Massachusetts Institute of Technology, 1884-85. A.B., 1889. Teacher of Chemistry in the Packer Collegiate Institute, Brooklyn, N. Y., 1889-92; Head worker, College Settlement, St. Mary's St., Philadelphia, 1892-93; Head worker, College Settlement, Boston, 1893-94.

LOUISE R. ELDER, ... *Group, Greek and Latin.*

Philadelphia, Pa. Prepared by Mrs. L. M. B. Mitchell's School, Philadelphia. A.B., 1889.

RUTH EMERSON, ... *Group, Greek and Latin.*

New York City. Prepared by Miss Gibbons' School, New York City. A.B., 1893. Graduate Student in Greek and Philosophy, Columbia College, 1893-94.

ANNIE CROSBY EMERY, ... *Group, Greek and Latin.*

Ellsworth, Me. Prepared by Ellsworth High School, and by one year at school in Dresden. A.B., 1892. Holder of the Bryn Mawr European Fellowship for 1892-93; Graduate Student in Greek and Latin, Bryn Mawr College, 1892-93; Student in Classics, University of Leipsic, 1893-94.

* Mrs. Edward Cameron Kirk, 1892.

† Mrs. Henry Crewe, 1890.

SUSAN BRALEY FRANKLIN, ... *Group, Greek and Latin.*

Newport, R. I. Prepared by Rogers' High School, Newport, R. I. A.B., 1889. Fellow in Greek, Bryn Mawr College, 1889-90, and Fellow by Courtesy in Greek, 1891-92; Graduate Student, Bryn Mawr College, 1890-91; Holder of the American Fellowship of the Association of Collegiate Alumnæ, and Student in Greek, Bryn Mawr College, 1892-93. Instructor in Latin, Vassar College, 1893-94.

LOUISE OLIPHANT FULTON, ... *Group, Greek and Latin.*

Philadelphia, Pa. Prepared by Mrs. Sutton's School, Philadelphia, and by R. H. Fulton, D.D. A.B., 1893.

ALICE ELEANORA GARRETSON, ... *Group, Greek and Latin.*

Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1890.

LEAH GOFF, ... *Group, Chemistry and Biology.*

Bryn Mawr, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1889. Assistant Demonstrator in Biology, Bryn Mawr College, 1889-94; Graduate Student in Biology, Bryn Mawr College, 1889-90, 1893-94.

ALICE BACHE GOULD, ... *Group, Mathematics and Physics.*

Boston, Mass. Prepared by Miss Ireland's School, Boston, Mass. A.B., 1889. Massachusetts Institute of Technology, 1889-90; Newnham College, University of Cambridge, England, 1890-93. Instructor in Mathematics and Physics, Carleton College, Minn., 1893-94.

EMELINE GOWEN, ... *Group, Greek and Latin.*

Mt. Airy, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1890.

JANE BOWNE HAINES, ... *Group, History and Political Science.*

Cheltenham, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa., and by Miss Creeth, Germantown, Pa. A.B., 1891. Graduate Student in History and Political Science, Bryn Mawr College, 1891-92; Fellow in History, Bryn Mawr College, 1892-93; Graduate Student in Sociology, Bryn Mawr College, 1893-94.

EMMA LYDIA HACKER, ... *Group, Chemistry and Biology.*

Westbrook, Me. Prepared by Friends' School, Providence, R. I., A.B., 1893. Teacher of Natural Science in State Normal School, Plymouth, N. H., 1893-94.

EDITH ROCKWELL HALL, ... *Group, History and Political Science.*

Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia. A.B., 1893.

ELIZABETH HARRIS, ... *Group, Greek and Latin.*

Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1890. Fellow in Greek, Bryn Mawr College, 1890-91. Teacher of Greek and Latin in The Dutch Reform Collegiate Grammar School, New York City, 1891-92; Teacher of Greek and Latin in Miss Florence Baldwin's School, Bryn Mawr, Pa.

FRANCES BROADHEAD HARRIS, ... *Group, History and Political Science.*

Germantown, Pa. Prepared by Miss Lambdin's School, Germantown, Pa. A.B., 1893.

HARRIET FRAZIER HEAD, ... *Group, Latin and French.*

Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1891. Teacher of Latin in Mrs. E. L. Head's School, Germantown, Pa.

MARGARET HILL HILLES, ... *Group, History and Political Science.*

Wilmington, Del. Prepared by the Misses Hebb and by Mr. E. L. Doan, Wilmington, Del. A.B., 1893.

ELIZABETH FRANCES HOPKINS, ... *Group, German and French.*

Thomasville, Ga. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1893.

MARY E. HOYT, ... *Group, Latin and English.*

Rome, Ga. Prepared by Shorter College, Rome, Ga., and by private study. A.B, 1893. Teacher of English in Mary Institute, St. Louis, Mo.

FRANCES ELIZABETH HUNT, ... *Group, German and French.*

Scranton, Pa. Prepared by School of the Lackawanna, Scranton, Pa., and by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1893.

MABEL HUTCHINSON DOUGLAS,* *Group, Greek and Latin.*

Des Moines, Io. Classical Course, Penn College, Iowa, 1884–85. A.B., 1889. Professor of Greek and Latin, Friends Polytechnic Institute, Salem, Oregon.

MARGARET D. KELLUM, ... *Group, Greek and Latin.*

Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md. A.B., 1892. Assistant in the Eastern High School, Baltimore, Md.

ABBY KIRK, ... *Group, Greek and Latin.*

Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1892. Reader in English, Bryn Mawr College.

CAROLINE LAWRENCE, ... *Group, History and Political Science.*

Saratoga Springs, N. Y. Art Student, Smith College, 1883–84; Special Student, 1885. A.B., 1889. Assistant, Church Settlement, St. Peter's House, Philadelphia, 1893–94.

ELVA LEE, ... *Group, Greek and Latin.*

Randolph, N. Y. Prepared by Chamberlain Institute, Randolph, N. Y., and by private study. A.B., 1893. Graduate Student in English, Bryn Mawr College, 1893–94.

LUCY LEWIS, ... *Group, History and Political Science.*

Philadelphia, Pa. Prepared by Mr. Robert Truitt, Philadelphia, and by private study. A.B., 1893.

MARIAN WILHELMINA MACINTOSH, ... *Group, Greek and Latin.*

Philadelphia, Pa. Prepared by Miss Gibson's School, Philadelphia. A.B., 1890. Graduate Scholar in Greek, Bryn Mawr College, 1890–91.

MARY TAYLOR MASON, ... *Group, History and Political Science.*

Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1892. Teacher of History in Mrs. E. L. Head's School, Germantown, Pa., 1892–93; Graduate Student in Sociology, Bryn Mawr College, 1892–93, and in Mathematics, 1893–94.

MARY BELLE MCMULLIN, ... *Group, Greek and Latin.*

Philadelphia, Pa. Prepared by Miss Gordon's School, Philadelphia. A.B., 1893.

MARY MCMURTRIE, ... *Group, History and Political Science.*

Philadelphia, Pa. Prepared by private study. A.B., 1889.

NELLIE NEILSON, ... *Group, Greek and English.*

Philadelphia, Pa. Prepared by Miss Cooper's School, Philadelphia. A.B., 1893. Graduate Student in English, Bryn Mawr College, 1893–94.

ELIZABETH NICHOLS, ... *Group, Chemistry and Biology.*

Rosemont, Pa. Prepared by Friends' Central School, Philadelphia. A.B., 1893. Fellow in Biology, Bryn Mawr College, 1893–94.

RACHEL LOUISE OLIVER, ... *Group, Greek and Latin.*

Lynn, Mass. Prepared by Lynn High School, and by private study. A.B., 1893. Teacher in Lynn High School, and Graduate Student at Harvard Annex, 1893–94.

HENRIETTA R. PALMER, ... *Group, History and Political Science.*

Providence, R. I. Prepared by Providence High School. School of Library Economy, Columbia College, 1887–89; Acting Librarian, Bryn Mawr College, 1890–91. A.B., 1893. Associate Librarian, Bryn Mawr College.

ETHEL PARRISH, ... *Group, History and Political Science.*

Radnor, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia. A.B., 1891.

MARGARET M. PATTERSON, ... *Group, Greek and Latin.*

Denver, Col. Prepared by Pension Lacorne, Paris, France, and by Denver High School. A.B., 1890.

MARY GRAFTON PATTERSON, ... *Group, German and French.*

Denver, Col. Prepared by Pension Lacorne, Paris, France, and by private study. A.B., 1888.

CAROLINE ELY PAXSON, ... *Group, German and French.*

New Hope, Pa. Prepared by Miss Lily White's School, Germantown, Pa. A.B., 1890.

* Mrs. Henry Douglas, Jr., 1891.

GRACE PINNEY, ... *Group, German and French.*

New York City. Prepared by private study. A.B., 1892.

ANNA POWERS, ... *Group, Greek and Latin.*

New York City. Prepared by Friends' Central School, Philadelphia. A.B., 1890. Teacher of Latin and English in Mrs. E. L. Head's School, Germantown, Pa., 1890-93.

BERTHA HAVEN PUTNAM, ... *Group, History and Political Science.*

New York City. Prepared by Miss Gibbons' School, New York City. A.B., 1893. Teacher of Latin in the Bryn Mawr School, Baltimore, Md., 1893-94.

HARRIET RANDOLPH, ... *Group, Chemistry and Biology.*

Philadelphia, Pa. Prepared by private study. A.B., 1889. Fellow in Biology, Bryn Mawr College, 1889-90; Ph.D., University of Zürich, 1892. Demonstrator in Biology, Bryn Mawr College, 1892-94, and Reader in Botany, Bryn Mawr College, 1893-94.

ANNA ELY RHOADS, ... *Group, Greek and Latin.*

Bryn Mawr, Pa. Prepared by Friends' School, Germantown, Pa., and by private study. A.B., 1889. Graduate Student in Greek, Bryn Mawr College, 1889-90; University of Leipsic, 1890-91; Garrett Scholar in Biblical Literature, Bryn Mawr College, 1893-91.

ELLA RIEGEL, ... *Group, History and Political Science.*

Philadelphia, Pa. Prepared by Friends' Central School, Philadelphia. A.B., 1889.

HELEN J. ROBINS, ... *Group, Latin and English.*

Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia. A.B., 1892. Secretary to the Dean, Bryn Mawr College, 1892-93; Teacher of History and English Literature in Mrs. Edwin Robins' School, Philadelphia, and Teacher of Special Class in English Literature in Miss Case's and Miss Hallowell's School, Philadelphia, 1893-94; Graduate Student in English, Bryn Mawr College, 1893-94.

HARRIET ROBBINS, ... *Group, History and Political Science.*

Wethersfield, Conn. Prepared by High School, Hartford, Conn. A.B., 1893.

AMY CORDOVA ROCK, ... *Group, Chemistry and Physics.*

Washington, D. C. Prepared by High School, Washington, D. C., by Miss Mary E. Stevens' School, Germantown, Pa., and by private study. A.B., 1893. Assistant in Chemical Laboratory, and Graduate Student, Bryn Mawr College, 1893-94.

EDITH F. SAMPSON, ... *Group, Chemistry and Biology.*

Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa. A.B., 1890. Graduate Student in Biology, Bryn Mawr College, 1891-94.

LILIAN VAUGHAN SAMPSON, ... *Group, Mathematics and Physics.*

Germantown, Pa. Prepared by Wellesley Preparatory School, Germantown, Pa. A.B., 1891. Holder of the Bryn Mawr European Fellowship, 1891-92; Graduate Student in Biology, Bryn Mawr College, 1891-92; Student in Biology, University of Zürich, 1892-93; Graduate Student in Biology, Bryn Mawr College, 1893-94.

JANE SCOFIELD, ... *Group, Greek and Latin.*

Sandy Spring, Md. Graduate Mt. Holyoke College, South Hadley, Mass., 1886. A.B., 1891. Teacher of English and History in the San Antonio High School, San Antonio, Texas.

KATHARINE MORRIS SHIPLEY, ... *Group, Latin and English.*

Cincinnati, O. Prepared by Bartholomew English and Classical School, Cincinnati, O. A.B., 1890. Holder of the Bryn Mawr European Fellowship, 1890-91; University of Leipsic, 1890-91; Collège de France and the Sorbonne, 1891-92.

ALYS WHITALL PEARSALL SMITH, ... *Group, German and French.*

Philadelphia, Pa. Prepared by Miss Lily White's School, Germantown, Pa. A.B., 1890.

EMILY JAMES SMITH, ... *Group, Greek and Mathematics.*

Canandaigua, N. Y. Prepared by Mr. J. H. Lee and Mr. D. L. Satterthwaite, Canandaigua, N.Y. A.B., 1889. Girton College, University of Cambridge, England, 1889-90; Teacher of Greek in the Packer Collegiate Institute, Brooklyn, N. Y., 1891-93; Fellow in Greek, University of Chicago, 1893-94.

HELEN R. STAPLES, ... *Group, German and French.*

Dubuque, Io. Prepared by Dubuque High School, and by Lasell Seminary, Auburndale, Mass. A.B., 1893.

HARRIET STEVENSON, ... *Group, Mathematics and Physics.*

Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind.; Scientific Course, Wellesley College, 1886–87. A.B., 1892. Teacher of Mathematics and Physics in Miss Gibbons' School. New York City.

ANNE TAYLOR SIMPSON,* *Group, English and French.*

College Hill, Cincinnati, O. Prepared by Belmont College, College Hill, O. A.B., 1889.

GERTRUDE ELIZABETH TAYLOR SLAUGHTER,† . . . *Group, Greek and Latin.*

Cambridge, O. Prepared by The McDonald Ellis School, Washington, D. C., and by Centenary Collegiate Institute, Hackettstown, N. J. A.B. 1893.

MARY LEWIS TAYLOR, ... *Group, Mathematics and Physics.*

Indianapolis, Ind. Prepared by Girls' Classical School, Indianapolis, Ind. A.B., 1892.

HELEN WHITALL THOMAS, ... *Group, Greek and Latin.*

Baltimore, Md. Prepared by The Bryn Mawr School, Baltimore, Md. A.B., 1893.

MARGARET CHESTON THOMAS CAREY,‡ *Group, German and French.*

Baltimore, Md. Prepared by Miss Pindell's School, Baltimore, Md. A.B., 1889.

MARTHA GIBBONS THOMAS, ... *Group, Chemistry and Biology.*

Whitford, Pa. Prepared by private study. A.B., 1890.

LUELLA H. THORNE, ... *Group, Greek and Latin.*

Skaneateles, N. Y. Prepared by Skaneateles Union School and Academy. A.B., 1890. Teacher in Jamaica School, Long Island, 1890-92; Teacher in Friends' School, Union Springs, N. Y., 1892-93; Garrett Scholar in Greek, Bryn Mawr College, 1893-94.

EMILY RACHEL VAIL, ... *Group, Greek and Latin.*

Germantown, Pa. Prepared by Miss Mary E. Stevens' School, Germantown, Pa. A.B., 1891.

SUSAN FRANCES VAN KIRK, ... *Group, Latin and English.*

Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia, Pa. A.B., 1894.

EVANGELINE HOLCOMBE WALKER, ... *Group, Greek and English.*

Washington D. C. Prepared by Girls' Classical School, Indianapolis, Ind. A.B., 1893. Teacher of English, Miss Florence Baldwin's School, Bryn Mawr, 1893-94.

SUSAN GRIMES WALKER, ... *Group, History and Political Science.*

Boston, Mass. Prepared by The McDonald Ellis School, Washington, D. C., and by private study. A.B., 1893. Secretary to the Dean, Bryn Mawr College, and Graduate Student in Sociology, 1893-94.

MATHILDE WEIL, ... *Group, English and French.*

Philadelphia, Pa. Prepared by Mr. and Mrs. L. M. Johnson's School, Philadelphia, A.B., 1892. Editor of MacMillan's "Book Reviews," 1893-94.

EDITH WETHERILL, ... *Group, History and Political Science.*

Philadelphia, Pa. Prepared by Miss Case and Miss Hallowell's School, Philadelphia. A.B., 1892.

SOPHIA WEYGANDT, ... *Group, Greek and Latin.*

Germantown, Pa. Prepared by Mrs. E. L. Head's School, Germantown, Pa. A.B., 1889.

KATHERINE TABER WILLETTS GARDNER,§ *Group, Greek and Latin.*

New York City. Prepared by Miss Anna C. Brackett's School, and by Mrs. Julia J. Irvine, New York City. A.B., 1890.

ELIZABETH WARE WINSOR, ... *Group, Greek and Latin.*

Weston, Mass. Prepared by High School, Winchester, Mass.; Harvard Annex, 1889-90. A.B., 1892. Teacher of Classics and English Composition in Private School, 36 Newbury Street, Boston, Mass.

MARIAN ADAMS WRIGHT O'CONNOR,‖ *Group, Latin and German.*

Germantown, Pa. Special Student, Smith College, 1883-84. Prepared by Miss Florence Baldwin, Bryn Mawr, Pa. A.B., 1891.

* Mrs. Frank H. Simpson, 1893.

† Mrs. Moses Stephen Slaughter, 1893.

‡ Mrs. Anthony Morris Carey, 1893.

§ Mrs. Alfred A. Gardner, 1892.

‖ Mrs. Thomas Henry O'Connor, 1894.

Bryn Mawr College.

Introductory Statement

Bryn Mawr College, situated at Bryn Mawr, Pennsylvania, ten miles from Philadelphia, was endowed by Dr. Joseph W. Taylor, of Burlington, New Jersey, a physician, merchant, and member of the Society of Friends, who purposed founding an institution of learning for the "advanced education" of women, which should afford them "all the advantages of a college education that are so freely offered to young men." The site of the College was purchased and the buildings were begun during the lifetime of the founder, who died in 1880. In the same year the College was incorporated by the authority of the State of Pennsylvania, and invested with power to confer degrees. A circular of information was issued by the Trustees in 1883. A President and a Dean of the Faculty were elected in the spring of 1884. During the remainder of the year 1884 plans were matured and appointments made in the Faculty; in the autumn a second circular of information was issued, and an office at which to receive applications was opened in Philadelphia. The courtesy of the presiding officers and instructors of existing universities and colleges facilitated an acquaintance with the prevalent collegiate systems; and the domestic organisation of the women's colleges, Vassar, Smith, and Wellesley, received careful consideration. To the Johns Hopkins University acknowledgment is especially due, since from it has been borrowed the system of major and minor electives in fixed combination. In the spring of 1885 the first program was issued, and the College opened for instruction in the following autumn with forty-four students.

Admission.

Three classes of persons are admitted to the lectures and class-work of the College:—graduate students, undergraduate students, and hearers.

Graduate Students.

Graduate students must have presented a diploma from some college of acknowledged standing. They may pursue the ad-

vanced, or graduate courses,* offered by the College, although the instructors in the several departments may require of them certain introductory or auxiliary studies; they are, moreover, entitled to personal guidance and direction, supervision of their general reading and furtherance of their investigations, from the instructors. Their needs will be considered in the arrangement of new courses of lectures.

Fellows. The most distinguished place among graduate students will be held by the Fellows, who must reside in the College during the academic year. Nine resident Fellowships,† of the value of five hundred and twenty-five dollars each, are awarded annually—one in Greek, one in Latin, one in English, one in German and Teutonic Philology, one in Romance Languages, one in Mathematics, one in History or Political Science, one in Biology, and one in Chemistry. These fellowships, which do not exempt the holder from the usual charges for tuition, board and room-rent, are intended as an honor and are awarded in recognition of previous attainments. They are open to graduates of Bryn Mawr College, or of any other college of good standing. No one may compete that has not a college degree or a certificate of prolonged study under well-known instructors; and, generally speaking, the Fellowship will be given to the candidate that has studied longest or whose work affords the best promise of future success. All applications should be made as early as possible, and must be made by the 15th of March preceding the year for which the Fellowship is desired. Blank forms for application will be forwarded to the applicant. A definite answer will be given within four weeks from the last date fixed for application. The holder of a Fellowship is expected to show, by the presentation of a thesis, or in some other manner, that her studies have not been without result. All Fellows may study for the degree of Doctor of Philosophy, the Fellowship being counted, for this purpose, as equivalent to the degree of Bachelor of Arts. Those that continue their studies at the College after the expiration of the Fellowship, may, by vote of the Trustees, receive the rank of Fellows by Courtesy.

* For the convenience of graduate students the courses belonging to the graduate departments of the college are reprinted from this program in a separate pamphlet, which may be obtained by applying to the Secretary.

† For the Bryn Mawr European Fellowship and the Garrett European Fellowship, see page 52.

Undergraduate Students.

Undergraduate students must have fulfilled the requirements for matriculation, and may enter college at any age at which those requirements have been fulfilled. The studies leading to the degree of Bachelor of Arts are stated on pages 47–52. Those students that do not wish to study for a degree are enrolled as special students; they will, nevertheless, in the event of a change of plan, be credited with such of their studies as may have coincided with the studies leading to a degree. All special students must have passed the examination for matriculation. Attention is called to the fact that the Group System enables all candidates for a degree to specialise in one or more subjects.

Special Students.

Hearers.

Hearers will be excused from passing the matriculation examination; but they will be strictly distinguished from matriculates, and will be entitled to reside in the college only when by so doing they exclude no matriculated student, and when the courses pursued by them are equivalent in number to those ordinarily pursued in each year by candidates for a degree. They must be women of at least twenty-five years of age, and must furnish proof that they have at some time pursued the studies included in the matriculation examination. They must satisfy the several instructors that they can profit by the courses that they desire to follow, and their admission to recitations, examinations, and laboratory exercises, will depend on the express consent of the instructor in charge. Hearers differ, moreover, from special students in that they are not recognised by the College, and can receive only such certificates of collegiate study as may be given them by the several instructors. They cannot receive degrees.

Examination for Matriculation.

The examination for matriculation must be taken by all that wish to pursue their studies at the College, either as candidates for a degree or as special students.* The examination

* But candidates that present a certificate of honorable dismissal from some college or university of acknowledged standing, or candidates that have passed the Harvard University Examinations for Women held in Cambridge, New York, and Cincinnati will be admitted, whenever the examination has covered the same or equal ground in the subjects required for matriculation in the College, but not more than one calendar year and the summer recess must have elapsed between the two parts of the examination. For regulations concerning "hearers," see above.

The following subjects in the Harvard University Examinations for Women are accepted as equivalents: All the "elementary studies" except one language (which may be German *or* French *or* Greek, but must not be Latin), and the "advanced studies" in the three languages chosen; Latin composition; and, if Greek be taken, Greek composition. The "elementary studies" in Latin, Greek, French or German will not be accepted as a substitute for any part of the examination in these subjects, unless supplemented by the "advanced studies."

In no other cases will certificates be accepted.

for matriculation will be open to those also that wish to take it as a test of proficiency in elementary studies, but have no intention of entering the College; and certificates will be given to those who are successful in passing the examination.

Candidates may divide the examination into two parts; if, however, more than one calendar year and the summer recess elapse between the two parts of the examination, the first part must be repeated.

Blank forms of application for admission should be obtained from the Secretary.

Examinations are held in June and September of every year at Bryn Mawr College, and in June of every year in Baltimore, Germantown and Indianapolis; in June but not in September they may also be held by request in Boston, Cincinnati, California, and in London *or* Paris, and will be conducted by the Honorary Corresponding Secretaries, who will also answer enquiries in regard to the examinations or the College. Examinations may also be arranged for in other places. In June, 1893, the Bryn Mawr examinations were held in Germantown, Baltimore, Boston, Cincinnati, San Francisco, Indianapolis, and Chicago.

Tabular Statement.—All candidates for matriculation *must* be examined in the following three groups:

I.	II.	III.
Mathematics { Algebra, 2. / Plane Geometry, 1.	Latin Grammar & Composition, 1.	History, 1.
	Cæsar and Cicero, 1.	English, 1.
	Vergil and sight reading, 1.	Science, 1.

All candidates for matriculation *must* be also examined in one of the following groups:

IV.	IV.	IV.
Greek { Gram. and Comp., 1. / Xenophon, 1. / Iliad and sight reading, 1. } *and* *French* { Grammar, Prose, Poetry, } 3.	*Greek* { Gram. and Comp., 1. / Xenophon, 1. / Iliad and sight reading, 1. } *and* *German* { Grammar, Prose, Poetry, } 3.	*French* { Grammar, Prose, Poetry, } 3. *and* *German* { Grammar, Prose, Poetry, } 3.
or	*or*	

The candidate *may* be examined in the following subjects, and if not examined, must pursue them in college:

Advanced Mathematics { Solid Geometry, / Plane Trigonometry.

A fourth language, { **Greek* (as above) / *or* / *French* (as above) / *or* / *German* (as above)

* Students that have omitted Greek in the examination for matriculation may substitute for the beginners' course in Greek the minor course in Latin, see page 65. And

The subjects in which the candidate for matriculation *must* be examined are divided, for convenience of marking, into fifteen sections. It will be observed that each language other than English is counted as three sections. Groups I., II., and III. contain three sections each ; group IV. contains six sections. The figures attached to the subjects show the number of sections contained in each subject ; where a bracket precedes the figure, the subjects enclosed by the bracket cannot be separated in the examination. Should the candidates pass in fewer than three sections in the first division of the examination, the entire examination must be repeated ; but the three sections need not, except where this is indicated by the brackets, belong to one and the same group. Solid Geometry and Trigonometry or the fourth language cannot be substituted for any part of the fifteen sections.

I. **Mathematics.**—(1) and (2) *Algebra.** (3) *Plane Geometry.* *Mathematics.*

The examination in Algebra will comprise Elementary Operations, Quadratic Equations, Problems, Ratio, Proportion, Variation, Arithmetical and Geometrical Progressions.

While there will be no formal examination in Arithmetic, an adequate knowledge of the subject will be required throughout the mathematical examination ; in *all* the papers there will be some numerical problems, and the correct solution of a fair number of these will be regarded as essential.

All candidates that do not, in addition to the above, present *Solid Geometry* and *Trigonometry* (including the use and theory of logarithms and the solution of triangles), must pursue these branches and pass an examination in them before receiving a degree. It is especially recommended that those intending to elect mathematical courses should pass the entire matriculation examination in mathematics. These candidates are advised to confine themselves to Algebra ; Plane Geometry of the straight line and the circle ; Solid Geometry and Trigonometry. More benefit will be derived from a thorough acquaintance with the pure geometrical methods, than from a little knowledge of Analytical Geometry.

Students whose matriculation examination has included either Solid Geometry, or Trigonometry, or both, will be credited with the time which others must subsequently spend upon these studies.

C. Smith's *Elementary Algebra*, and Lock's *Trigonometry for Beginners* (Macmillan) are recommended.

II. **Latin.**—(1) *Grammar and Composition.* (2) *Cæsar*, Gallic War, Books I.–IV. (or, if desired, *Ovid*, Metamorphoses, two thousand lines). *Cicero* seven orations, (*pro Archia poeta, de imperio Cn. Pompei, pro Marcello*, and the four orations *in Catilinam.*) (3) *Vergil*, Æneid, Books I.–VI. (or the Eclogues and five books of the Æneid). In and after the Spring examinations of 1895, the examination in reading will consist in translation at sight of simple prose passages and translation at sight of passages of average difficulty from Cæsar, Cicero and Vergil, with questions testing the candidate's practical knowledge of grammar, including prosody. *Latin.*

There will be questions testing the candidate's practical knowledge of grammar, including prosody, and translation of English into Latin.

this minor course in Latin may also be offered for examination by students that wish to enter with advanced standing. A student choosing Latin as one of the languages of her Group, and not wishing to study Greek, may substitute a year of post-major Latin or a year of minor or major French or German.

* In no circumstances may the Algebra paper be divided by a candidate. Even when the College report indicates that the failure is to count as a condition in *one* section only, the whole paper must be taken in order to work off this condition.

The candidate will be expected to translate at sight easy passages, with due allowance for unusual words.

The so-called Roman method of pronunciation, as explained in Allen and Greenough's *Latin Grammar*, is recommended.

As many schools are introducing the "natural method" as a substitute for thorough grammatical training, attention is called to the fact that special stress will be laid on an accurate and ready knowledge of grammatical forms. A knowledge of paradigms and parts of irregular verbs will be insisted upon.

Candidates are advised, whenever possible, to try the whole Latin examination at one time, although the three sections may be taken separately, and in any order the candidate may prefer.

History. *III.* History.—(1) The outlines of the History of England and the United States; *or* the outlines of the History of Greece and Rome.

Johnston's *History of the United States*, and *The United States: its History and Constitution;* Ransome's *History of England*, or Gardiner's *English History for Schools;* Oman's *History of Greece* (Longman's, N. Y.); Leighton's *History of Rome*, or Allen's *History of the Roman People* are recommended.

English. English.—(1) The candidate will be required to write a short English composition, correct in spelling, grammar, punctuation, and general arrangement, and to correct specimens of bad English.

In 1894 candidates must be familiar with Chaucer's *Knight's Tale;* Shakespeare's *Midsummer Night's Dream* and *Twelfth Night;* the *Sir Roger de Coverley Papers* in the Spectator; Macaulay's *Essay on Addison*, and *Essay on Johnson.*

In 1895 candidates must be familiar with Chaucer's *Knight's Tale;* Shakespeare's *Merchant of Venice*, and *Twelfth Night;* Milton's *L'Allegro, Il Penseroso, Comus* and *Lycidas;* Macaulay's *Essay on Addison;* the *Sir Roger de Coverley Papers* in the Spectator.

The books recommended (for the years 1894 and 1895), by the Commission of Colleges of New England, will be accepted as equivalents.

Candidates are required to be familiar with the subject-matter of these works. A comparatively small amount of reading is prescribed because much stress will be laid on an intelligent knowledge of the elements of English composition and grammar and no candidate can be successful in passing the examination without familiarity with the essentials of punctuation and arrangement. Hill's *Foundations of Rhetoric* and Abbott's *How to Write Clearly* and Bigelow's *Handbook of Punctuation*, or any other good works are recommended as aids to the knowledge of correct arrangement and punctuation.

The books given in 1894 will be required of candidates taking the examinations in the Spring and Autumn of 1894, and of candidates entering College in February, 1895.

Candidates passing off conditions after admission to College may offer the books prescribed in the examination in which the condition was imposed.

Science. Science.—(1) The elements of one of the following sciences:—Physics, *or* Chemistry, *or* Botany, *or* Physiology, *or* Physical Geography.

Gage's *Physics*, Remsen's *Introduction to the Study of Chemistry* (Briefer Course), Bessey's *Essentials of Botany*, Martin's *Human Body* (Briefer Course), and Russell Hinman's *Physical Geography* are recommended. Candidates are advised, whenever possible, to offer Physics or Chemistry, as these studies form a better basis for further scientific work.

IV. Two of the following languages:

Greek. Greek.—(1) *Grammar and Composition.* (2) *Xenophon*, Anabasis, Books I–IV. (3) Iliad, Books I–III. In and after the Spring examinations of 1895, the examination in reading will consist in translations at sight of simple Attic

prose, such as Xenophon's *Anabasis* or *Memorabilia*, and translations at sight of passages of average difficulty from Homer, with questions touching the candidate's practical knowledge of grammar, including prosody.

White's *First Lessons in Greek* and Jones' *Exercises in Greek Prose*, or equivalents, are recommended.

There will be questions on grammar suggested by the text, and translation at sight of easy passages from Xenophon and the Iliad, with due allowance for unusual words.

French. **French.**—(3) The examination in French will have three divisions, one to test the candidate's knowledge of pronunciation and ordinary grammatical forms, the other two, her power to read at sight ordinary French prose and verse.

For the examination in reading no texts are assigned, the examination being intended to test the candidate's ability to read any ordinary French whatsoever. Candidates preparing for these examinations are advised to acquire as large a vocabulary as possible. They are further advised in their study of verbs to concentrate their attention on the regular verbs, the auxiliaries *être*, *avoir*, and such important irregular verbs as *aller*, *devoir*, *dire*, *faire*, *mettre*, *prendre*, *pouvoir*, *vouloir*, *tenir*, *venir*, *voir*, *écrire*, *lire*, *croire*, *boire*, and the typical verbs *conduire*, *craindre*, *paraître*, *partir*, and to acquire a fair knowledge of the use of the various past tenses and of the rules of the subjunctive.

The examination in French cannot be divided.

German. **German.**—(3) The examination in German will be precisely similar to that in French, and will test the candidate's pronunciation, knowledge of ordinary grammatical forms, and ability to read ordinary German at sight.

The examination in German cannot be divided.

The candidate may omit one of the three languages, Greek, French, or German, selecting Greek and French, *or* Greek and German, *or* French and German.

Remarks on Examination for Matriculation.

All subjects potentially included in the examination for admission are regarded by the College as preparatory and non-collegiate. The College course of instruction in mathematics, for example, does not include but presupposes trigonometry; the courses in French and German presuppose a reading knowledge of these languages.

It is therefore to the interest of every candidate to offer, at entrance, advanced mathematics, and if possible all four languages, since even to fail in such of these examinations as are not strictly obligatory, will not affect the candidate's collegiate standing, and to pass them successfully will leave her nearly free for elective study under the Group System and for true collegiate work. Great pains have been taken in the organisation of the collegiate courses; and it is not desirable that the time of students within the College should be needlessly withdrawn from these and spent upon preparatory work.

Studies Leading to the Degree of Bachelor of Arts.

No student will be graduated who does not at the time of graduation possess a reading knowledge of French and German and some acquaintance with Latin. In the last semester before graduation, an oral examination will be held to test the candidate's power of reading French and German at sight.*

* The College provides beginners' classes, five times weekly throughout one year, for those students who in the examination for matriculation may have omitted Greek,

The following course of study must be pursued by every candidate for the degree of Bachelor of Arts.

Required Studies. *English*, five hours weekly for two years.

Science, or *Science and History*, five hours weekly for two years; that is, any one of the major courses in Science, or any two minor courses in Science; or any one of the minor courses in Science, together with either one of the minor courses in History or a minor course in Political Science. Those students, however, who make a major of History or Political Science may substitute for the year of History or Political Science a year of modern or a year of ancient language.

Philosophy, five hours weekly for a year.

Group. *Two Major Courses*, of five hours weekly for two years each, constituting one of the following Groups: Any language with any language; History with Political Science; Philosophy with Political Science, or Philosophy with Greek, or Philosophy with Mathematics or Physics; Mathematics with Physics, or Mathematics with Greek or Latin; any science with any science.

Free Electives. *Free Electives*, five hours weekly for a year and a half, to be chosen by the student. It should be noted that a single study may be taken as a Free Elective, without electing the group that includes it. Students whose group includes Physics, but not Mathematics, must take at least a year of Mathematics as a Free Elective.

Solid Geometry and Plane Trigonometry, five hours weekly for one half year when these subjects have not been included in the examination for matriculation.

Greek or French or German,* five hours weekly for one year when that subject has not been included in the examination for matriculation. Those students, however, who have omitted Greek may substitute for the required course in Greek the minor course in Latin.⁂

These studies may for convenience be tabulated as follows:

Tabular Statement.

Minor Courses (Five hours weekly for One Year Each).†

1. and 2.	3.	4.	5.	[6.]	‡[7.]
English. *Two Courses.*	Philosophy.	Science: Physics, or Chemistry, or Biology.	Science, or History, or Politics.	French, or German, or Greek (or Minor Latin).⁂	Solid Geometry and Trigonometry.

French, or German, and classes in Solid Geometry and Trigonometry, five hours weekly for one half-year; but attendance on these classes is not obligatory, the student being free to make good her deficiencies by private reading.

* See note on page 47.

† Except 7. (*One half-year.*)

‡ See note on page 47 and 48 and page 86, under "Mathematics."

⁂ A student choosing Latin as one of the languages of her Group, and not wishing to study Greek, may substitute a year of Post Major Latin, or a year of French, or of German for the year of Minor Latin.

Two Major Courses (Five hours weekly for Two Years Each).

Constituting any one of the following groups:

I.	II.	III.	IV.
Any language with any language.	History with Political Science.	Political Science with Philosophy.	Philosophy with Greek.
V.	**VI.**	**VII.**	**VIII.**
Philosophy with Mathematics or Physics.	Mathematics with Greek or Latin.	Mathematics with Physics.	Any Science with any Science.

Free Electives.

Five hours weekly for a year and a half in any subject or subjects the student may elect.

The "Minor Courses" in the above undergraduate table are known as the Required Studies; the "Two Major Courses," as the Group. All these studies are arranged in accordance with the Group System, and a proper understanding of the Group System is essential to an understanding of the courses of instruction.

The Group System.

In all departments as yet organised there is a course of five hours a week for two years, called a Major Course. Whenever one year of this course is of such a nature that it can be taken separately, it is marked as a Minor Course. It is required of every candidate for a degree to take two such major courses as shall be homogeneous, or shall complete each other, and major courses which fulfil this condition are designated as Groups. It is meant that the student, under this system, should lay the foundations of a specialist's knowledge; and the Required Studies, namely, English, philosophy, science and history, are intended in part to supplement the Group, and in part to insure a more liberal training than could be achieved did every student combine elective studies at pleasure. The two years' required course in English serves as a general introduction to the study of language and of comparative literature. The required two years in science, or in science and history, permit the student of chemistry and biology to pursue both branches of the biological course, or to take a major course in physics; and they insure to the student of history and of language, for

one year at least, the same kind of instruction and discipline as is received by the scientific student. The one year's course in philosophy is a general introduction into the study of the laws, conditions, and history of thought.

The following may serve as examples of some of the many combinations of studies that may be made by those candidates for a degree, who wish to specialise as far as possible in particular departments. Solid Geometry and Trigonometry and Elementary French *or* Elementary German *or* Elementary Greek *or* Minor Latin are bracketed as being properly included in the examination for matriculation.

Classics. *As Required Studies*, [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek], English, Philosophy, Science (Physics, Chemistry, or Biology), Ancient History (*or* Modern History *or* Minor Politics). *As a Group*, Greek and Latin. *As Free Electives*, advanced Greek and Latin, five hours weekly for one year and a half.

Modern Languages (other than English). *As Required Studies*, [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History (*or* Ancient History, *or* Minor Politics). *As a Group*, French and German, or French, Spanish and Italian. *As Free Electives*, Spanish and Italian, or advanced French, or German, five hours weekly for one year and a half.

English. *As Required Studies*, [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, Science (Physics, Chemistry, or Biology), Modern History (*or* Ancient History, *or* Minor Politics). *As a Group*, French and English, or Greek and English. *As Free Electives*, German, or Latin, five hours weekly for one year and a half.

Mathematics (with Latin). *As Required Studies*, [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor German, or Minor French], English, Philosophy, Physics, Ancient History (*or* Modern History, *or* Minor Politics). *As a Group*, Mathematics and Latin. *As Free Electives*, Advanced Mathematics, five hours weekly for one year and a half.

Mathematics (with Physics). *As Required Studies*, [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, Chemistry, Biology. *As a Group*, Mathematics and Physics. *As Free Electives*, Advanced Mathematics, or Advanced Physics, five hours weekly for one year and a half.

History. *As Required Studies*, [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, any Science, any Language (Greek, Latin, English,

German, French, Italian, or Spanish). *As a Group,* History and Political Science. *As Free Electives,* Advanced History, or Advanced Political Science, five hours weekly for one year and a half.

Science. *As Required Studies,* [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, Physics, Physics (second year). *As a Group,* Chemistry and Biology. *As Free Electives,* Minor Mathematics and advanced work in Biology, or Chemistry, five hours weekly for one half-year.

The following combinations may be adopted by those who wish to pursue a major course in history, politics, or science, yet do not wish to elect an historical, a political, or a scientific group.

I. *As Required Studies,* [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, any Science, Ancient History. *As a Group,* any Language with any Language, or Chemistry with Biology or Physics. *As Free Elective,* Modern History, five hours weekly for one year and a half.

II. *As above,* but for Ancient History substitute Minor Politics, and for Modern History, Major Politics.

III. *As Required Studies,* [Solid Geometry and Trigonometry, Elementary French, or Elementary German, or Elementary Greek, or Minor Latin], English, Philosophy, Physics, Chemistry. *As a Group,* any Language with any Language. *As Free Electives,* the second year in Chemistry, and one half-year in Biology.

Every student is expected to consult the Dean of the Faculty in regard to the details and best arrangement of her various studies, and must register her course of study at the Dean's office before entering upon college work.

The courses leading to the degree of Bachelor of Arts may, as a rule, be taken in any order preferred by the student, provided they can be completed satisfactorily. Those students who have not as yet decided on their group may in the first year pursue required studies only, or may pursue one of the courses belonging to the group to which they most incline, with the understanding that if they should desire to change their group, that course will be counted as a free elective; those students whose tastes are already fully formed, or who are uncertain how many years they shall remain at College, may enter at once on free elective studies and on the study of both subjects of their group. There are obvious advantages for the student in deferring as long as possible the choice of her free electives

and her group, inasmuch as the required studies, by accustoming her to the methods of laboratory work, and to the study of languages, literature and history, afford her every opportunity of ascertaining her true tastes and aptitudes.

The students are not divided into the traditional college classes, and there is no fixed date for graduation; in order to pursue a wider course of reading in connection with single subjects, or to attend a greater variety of lectures, the ablest students may choose to defer graduation, and, on the other hand, the usual period of collegiate study may be abridged; personal considerations only will determine the time spent in completing the studies required for a degree. Nevertheless, these requirements constitute strictly a four years' course; that is to say, if the time given to lectures and class-work be, as is usual, fifteen hours weekly, a student passing the ordinary matriculation examination, and availing herself of the preliminary courses of the College on the subjects which that examination did not include, will in all cases require precisely four years.

The Bryn Mawr European Fellowship.

The Bryn Mawr European Fellowship will be awarded annually to a member of the graduating class of Bryn Mawr College on the ground of excellence in scholarship. The holder will receive the sum of five hundred dollars, applicable to the expenses of one year's study and residence at some foreign university, English or Continental. The choice of a university may be determined by the holder's own preference, subject to the approval of the College.

The Garrett European Fellowship.

The Garrett European Fellowship, of the value of five hundred dollars, applicable to the expenses of one year's study and residence at some foreign university, English or Continental, is open for competition to all students still in residence who have for two years pursued graduate studies at Bryn Mawr College. The choice of a university may be determined by the holder's own preference, subject to the approval of the College. This Fellowship was founded in 1894 by Miss Garrett of Baltimore.

The Garrett Graduate Scholarships.

The Garrett Graduate Scholarships, five in number, of the value of two hundred dollars each, may, on the recommendation of the head of the department in question, be awarded to the candidates next in merit to the successful candidates for the Fellowships, or to other graduate students.

Studies Leading to a Second Degree.

Graduates of Bryn Mawr College, and graduates of other colleges, who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may be prescribed, may, at their discretion, enroll themselves as candidates for the degree of Doctor of Philosophy and Master of Arts. A separate degree of Master of Arts is open to graduates of Bryn Mawr College, but to them only.

The Degree of Doctor of Philosophy and Master of Arts.

The degree of Doctor of Philosophy may be conferred upon graduates of Bryn Mawr College, and upon graduates of other colleges who shall have satisfied the Faculty that the course of study for which they received a degree is equivalent to that for which the degree of Bachelor of Arts is given at Bryn Mawr College, or who shall have attended such additional courses of lectures as may have been recommended.

The candidate must have pursued for three years, after having received the first degree, a course of liberal (non-professional) study at some college or university approved by the Faculty, and have spent at least two of these years at Bryn Mawr College. She must have written, on some subject connected with her chief subject of study, a dissertation that bears satisfactory evidence of original research, and must pass an oral examination in the presence of the members of the Faculty on one major or chief subject, and a written and an oral examination on two minor subjects. In special cases where one minor subject is substituted for the two minor or secondary subjects, the time spent on the one secondary subject must be equal to the time usually spent on the two minor subjects, and every combination of major and minor subjects for the final examination must have been submitted to the Dean, by whom, after due consultation with the heads of the departments concerned, it will be submitted to the Faculty.

The candidate may be required to pursue certain auxiliary studies in connection with the subject that she has elected; and the degree of Doctor of Philosophy will be given to no one who cannot read French and German, or who is unacquainted with Latin. The dissertation must have been printed by the candi-

date before she can be admitted to the degree of Doctor of Philosophy. The degree of Doctor of Philosophy will in no case be conferred by the College as an honorary degree.

The Degree of Master of Arts. A separate degree of Master of Arts will be conferred on graduates of Bryn Mawr College. The candidate for this degree must have studied at Bryn Mawr College for at least one year after receiving the degree of Bachelor of Arts, and must have pursued either undergraduate courses not previously taken, amounting to twelve hours weekly, or graduate courses equivalent to twelve hours weekly. She may have devoted herself exclusively to a single subject, and must have taken in some one subject the equivalent of a five-hour course. If the courses taken are undergraduate courses, the student must pass the usual examinations with credit; if they are graduate, she must pass either a written examination, or an oral examination in the presence of the members of the Faculty, as may be preferred by the heads of the departments in which she has studied.

Expenses. The charge for tuition is one hundred dollars a year, irrespective of the number of courses attended, or of the actual time of attendance. It is the same for undergraduate students, graduate students, special students, and hearers, and is payable in advance. An additional charge of fifteen dollars a year is made for materials in every laboratory course of five hours weekly throughout the year.

A special exception will be made in favor of non-resident medical students and physicians, who will be charged for a single course in chemistry or biology fifty dollars, and for two courses one hundred dollars, the laboratory charges being the same for them as for other students. A course is held to be five hours weekly of lectures and class-work throughout the year.

Residence. Residence in the College buildings is optional. Of the students in daily attendance at the lectures and class work of the College, some have always lived in Philadelphia, or in the neighborhood of Bryn Mawr; others have resided in the College for five days of the week. The expense of board and residence in the College halls is two hundred and seventy-five dollars, three hundred dollars, three hundred and twenty-five dollars, or in special cases three hundred and fifty, three hundred and seventy-five or four hundred dollars, according to the room or rooms

occupied by the student. Of this sum one hundred and fifty is the charge for board, and is payable half-yearly in advance; the remainder is room rent, and is payable yearly in advance. Room rent includes all expense of service, heating and light, except open fires and laundry work.

The health of the students is under the charge of Dr. Ida E. Richardson, a physician practising in Philadelphia, who visits the College every week, and can then be consulted by all the students free of charge.

Plans of Merion Hall, Radnor Hall, Denbigh Hall, and Pembroke Hall with a full account of the halls and tariff of rooms, may be obtained by application to the Secretary of the College. Each of these halls has its separate kitchen and dining hall, provides accommodations for about sixty students, and is under the charge of a resident Mistress. Application for rooms should be made as early as possible. Since the demand for College rooms is very great and every room unnecessarily reserved may prevent some other student from entering College, a deposit of fifteen dollars, which will be deducted from the first College bill, is required before a room is assigned.

A deposit of fifteen dollars must also be made by each student in residence in order to insure the tenure of her room for the following academic year. This sum will be forfeited if no formal notice of withdrawal is filed at the Secretary's office on or before May first of the current year.

All students, or candidates for matriculation, reserving rooms who do not inform the Secretary of their change of intention before September first of the academic year for which the room is reserved, will be responsible for the rent of the room for the entire academic year.*

The rooms are completely furnished. No lamps, towels, table napkins, sheets, or supplies of any kind need be brought by the student. No part whatever need be taken by the student in the care of her own room.

There are open fire-places in nearly all the studies, but the rooms will be sufficiently heated by steam. A fixed annual charge ($18 for one dozen pieces a week) is made for washing (see the description of Merion Hall, Radnor Hall, Denbigh Hall and Pembroke Hall) when students prefer to have their washing done in the College. Students that remain at the college during the winter and spring vacations will be charged seven dollars, or eight and a half dollars, weekly, according to the rooms occupied. No charge is made for sending meals to students that remain in their rooms by the advice of the physician or of the mistress of the hall.

* An exception will be made in the case of candidates that fail to pass the September Examinations for Matriculation.

The charge for tuition is accordingly $100 a year, payable in advance.

The charge for residence in the college halls, exclusive of board, is $125, $150, $175, (or in special cases, $200, $250) a year, payable in advance.

The charge for board is $150 a year, one half payable in advance.

The charge for board, residence and tuition is, therefore, $375, $400, or $425 (or in special cases $450, $475, $500) a year; the additional charges are $15 for every laboratory course of five hours weekly, not more than one laboratory course being required of candidates for a degree.

THE STUDENTS' LOAN FUND OF BRYN MAWR COLLEGE was founded by the class of 1890 for the purpose of receiving contributions, however small, from those who are interested in aiding students to obtain an education. The money thus contributed is distributed in the form of partial aid, and as a loan. It will be applied to the assistance of those students only who have attended courses in the College for at least one year. The Fund is managed by a committee consisting of the President and Dean and three representatives of the Association of Bryn Mawr College Alumnæ. The committee reports yearly to the Board of Trustees and to the Alumnæ Association. The officers for the year 1892–93 are as follows: Chairman, Miss Mary McMurtrie; Secretary and Treasurer, Miss Mary T. Mason, School Lane, Germantown, Philadelphia. Contributions may be sent to any member of the committee.

SCHOLARSHIPS.—Two Partial Scholarships of $200 each will be open to members of the Society of Friends that are unable to pay the full charge for tuition and residence. When there are more than two applicants the candidates will be selected by competitive examination; in all cases graduate students will be preferred, and in no case can the scholarship be held by any one that has not passed the matriculation examination with credit. Three scholarships, covering all expenses of tuition, board and residence, will be open to those graduates of Earlham, Penn, and Guilford Colleges respectively, who, in the preceding year, have completed the course of their several colleges with most distinction. These scholarships have been established by the Trustees in accordance with the desire of the Founder of the College to promote the advanced education of women in the Society of Friends, of which he was a member.

INSTRUCTION.

Libraries. The fact that the College is at a distance of only ten miles from Philadelphia, which may be reached by half-hourly trains in from twenty to thirty minutes, enables the student to make use of all the resources of the libraries of Philadelphia, as well as of those of the College proper.

The College Library, accordingly, will remain as far as possible a library for special study. There are at present on its shelves thirteen thousand three hundred and twenty-four bound volumes, and the Classical Library of the late Professor Sauppe, of Göttingen, containing nine thousand bound volumes and seven thousand doctors' dissertations and pamphlets, has been pur-

chased for the College, and will be ready for use within the next few months. The Library of the late Professor Amiaud, of Paris, was acquired in 1892, and at present forms part of the library of the College. It is a good working library for the student in every department of Semitic study. A more detailed description of these two collections may be found on pages 60 and 77 of the Program.

The sum of three thousand dollars is expended yearly for books under the direction of the heads of the several collegiate departments, and in addition to many gifts of books over four thousand dollars has been presented to the library during the past six years for expenditure in special departments. One hundred and forty-six scientific, literary, and philological periodicals and reviews in the English, German, French, Italian, Norse and Swedish languages, are taken by the library as follows:

Academy; Acta Mathematica; American Chemical Journal; American Economic Association publications; American Journal of Archæology; American Journal of Mathematics; American Journal of Philology; American Journal of Psychology; American Journal of Science; American Naturalist; Andover Review; Anglia; Annalen der Physik und Chemie; Annals of the American Academy of Political and Social Science; Annales de l'École Normale Supérieure; Archiv für Anatomie und Physiologie; Archiv für die Gesammte Physiologie; Archivio Glottologico Italiano; Archiv für Latein. Lexicographie; Archiv für neueren Sprachen und Litteraturen; Arkiv für Nordisk Filologi; Athenæum; Atlantic Monthly; Babylonian and Oriental Record; Beiträge der Deutschen Sprache und Litteratur; Beiträge zur Kunde der Indogermanischen Sprachen; Biblical World; Bibliotheca Mathematica; Bibliotheca Philologica Classica; Biologisches Centralblatt; Botanisches Centralblatt; Bulletin de Correspondance Hellénique; Bulletin of the New York Mathematical Society; Centralblatt f. Physiologie; Century Magazine; Chemical News; Classical Review; Comptes Rendus des Académies des Sciences; Contemporary Review; Coöperative Index to Periodicals; Deutsche Literaturzeitung; Deutsche Zeitschrift für Geschichtswissenschaft; Dial; Dialect Notes; Economic Journal; Economic Review; Electrician; Englische Studien; English Historical Review; Expositor; Fortnightly Review; Forum; Germania; Göttingische Gelehrte Anzeigen; Harper's Magazine; Hartford Seminary Record; Harvard University Bulletin; Haverford College Studies; Hebraica; Hermes; Historische Zeitschrift; Independent; Indian Antiquary; Indogermanische Forschungen; International Journal of Ethics; Jahresbericht Germanischen Philologie; Jahresbericht über die Alterthumswissenschaft; Jahresbericht über die Fortschritte der Chemie; Jahrbuch für Gesetzgebung; Johns Hopkins University Studies; Journal of the American Oriental Society; Journal of Biblical Literature; Journal of Morphology; Journal de Mathématiques; Journal für die reine u. angewandte Mathematik; Journal für Practische Chemie; Journal of Hellenic Studies; Journal of the Chemical Society; Journal of the Microscopical Society; Journal of Philology; Journal of Physiology; Kryptogamen Flora; Library Journal; Library Notes; Literarisches Centralblatt; Literary News; Literaturblatt für Germ. u. Rom. Philologie; London Weekly Times; Mathematische Annalen; Messenger of Mathematics; Mind; Modern Language Notes; Mittheilungen der Archæologischen Instituts; Mittheilungen der Englischen Sprache und Litteratur; Mittheilungen aus der Zoölogischen Station zu Neapel; Monatshefte für Chemie; Nachrichten von der Königlichen Gesellschaft der Wissenschaften; Nation; North American Review; Nature; Neue Jahrbücher für

Philologie u. Pädagogik; Nineteenth Century; Old and New Testament Student; Outlook; Philologische Wochenschrift; Philosophical Magazine; Philosophical Review; Philosophische Studien; Political Science Quarterly; Popular Science Monthly; Proceedings of the Academy of Natural Sciences; Proceedings of London Mathematical Society; Proceedings of the Royal Society; Psychological Review; Publications of the Modern Language Association; Publications of the American Statistical Association; Quarterly Journal of Economics; Quarterly Journal of Mathematics; Quarterly Journal of Microscôpical Science; Quarterly Review; Quellen und Forschungen; Review of Reviews; Revue Bleue; Revue Celtique; Revue Historique; Revue Philosophique; Rheinisches Museum für Philologie; Romania; Romanische Forschungen; Science; Scribner's Magazine; Spectator; Transactions of American Philological Association; Westminster Review; Wochenschrift für Klassische Philologie; Zeitschrift für Deutsches Alterthum; Zeitschrift für Deutsche Philologie; Zeitschrift für Physikalische Chemie; Zeitschrift für Anorganische Chemie; Zeitschrift für Assyriologie; Zeitschrift für Franzôsische Sprache; Zeitschrift für Psychologie; Zeitshrift für Wissenschaftliche Zoölogie; Zeitschrift für Romanische Philologie; Zeitschrift für Vergleichende Sprachforschung; Zoölogischer Anzeiger.

The library is open daily from eight A.M. to ten P.M., and books may be taken out by the students during these hours.

There are in Philadelphia the following important libraries:

The *Philadelphia Library*, which contains about 145,000 volumes. The library will at all times be open to the students for consultation; and students can obtain books on the shares held by the officers of the college. Private subscription, $12 a year for eight volumes, or $10 for nine months.

The *Mercantile Library*, which contains 150,000 volumes. Students can obtain books on the shares held by the College Library. Private subscription, $6.00 a year for two separate works at a time.

The *Library of the Academy of Natural Sciences*, which contains 30,000 volumes. The Council of the Academy has generously conceded the use of its library and of its museum to the students of Bryn Mawr College.

Courses of Study. There will be offered each year major or two-year courses of five hours weekly in the following subjects: Greek, Latin, English, German, French, Italian and Spanish, History, Political Science, Philosophy, Mathematics, Physics, Chemistry, and Biology.

Graduate courses are offered in Sanskrit and Indo-European Philology, Greek, Latin, Old French, Italian, Spanish, and other Romance Languages, Gothic and Teutonic Philology, Old Norse, Old High German, Middle High German, Old Saxon, Anglo-Saxon, English Literature, Celtic and Slavonic Languages, Hebrew, Aramaic, Assyrian, Biblical Literature, History, Political Science, Philosophy, Mathematics, Physics, Chemistry, Morphology, Physiology, and Physiological Chemistry.

Courses in Language and Literature.

The courses in language and literature are meant, first of all, to be complete in themselves, and extensive enough to meet the needs of special students, and secondly, to facilitate the study of comparative philology or of comparative literature. Whenever it has been practicable, as in Greek and Latin and in the modern languages, one half of the major course has been devoted to strictly linguistic studies, and the other half to the history of literature. In the major courses in Greek and Latin, the customary text-reading will be supplemented by lectures on the history of literature; the advanced course in Greek is constructed on the model of a major course, one year being devoted to comparative philology and Sanskrit, and one to literary studies and the reading of difficult texts. Courses of parallel reading will be required of all students of language and literature, precisely as laboratory work is required of the students of chemistry or biology; these courses are intended to acquaint the students with the works of numerous authors, and it is especially hoped that students of Greek and Latin will, by this means, accustom themselves to read these languages constantly and without assistance.

The courses in ancient and modern languages will be of equal difficulty, and will be placed on a footing of equality. The traditional separation between ancient and modern languages has been disregarded, because, although strictly classical students may always be inclined to combine Greek and Latin, there is, nevertheless, no modern literature of which the study may not fitly be preceded, or supplemented, by the study of Latin or Greek.

Lectures.

Whenever possible, as in the courses in Greek, Latin, English, French, and German Literature, in History, Politics, Philosophy, Mathematics, and Science, the instruction is given by means of lectures. It is the object of these lectures to give a clear and succinct statement of facts and principles; to enumerate and criticise with frankness hand-books, authorities, and editions; to touch upon minor or far-lying points with such distinctness as may enable the student to investigate them intelligently at some future day; to bring the student's knowledge down to date, and to inform her, step by step, what things have been definitely ascertained and what things remain to be investigated. It is intended that the notes taken on these

lectures, in addition to their immediate practical use, shall be of lasting value for reference, and be the starting-point, or at least the schedule, of studies to be undertaken subsequently. Every isolated student knows how difficult it is to be initiated into the modern scholastic movement otherwise than orally; and, therefore, in addition to the lectures, the several instructors will appoint certain hours in which the students may consult them freely. The lectures will be accompanied by class work, and by frequent examinations; they will be strictly special, not popular.

The Professors or Associates appointed are the recognised heads of their departments, and only such instructors have been chosen as are qualified to direct both graduate and undergraduate work.

Courses of Instruction. The undergraduate and graduate courses offered in the years 1893–94 and 1894–95 are as follows:

Sanskrit, Greek, and Latin.

Professors and Instructors: Dr. Edward Washburn Hopkins, Dr. Herbert Weir Smyth, Mr. William Cranston Lawton, Dr. Gonzalez Lodge, Dr. George A. Barton.

In 1894 by the acquisition of the famous collection of the late Professor Hermann Sauppe, the College became possessed of one of the largest and best selected classical libraries in America. During the sixty years from 1833 to 1893 in which Professor Sauppe was Professor of Classical Philology at Zürich, Weimar, and Göttingen successively, he brought together with great care and perseverance a library of 9000 bound volumes and more than 7000 unbound Doctor's Dissertations, Programmes, and Monographs, from which scarcely any important edition of any Greek or Latin author is missing. It is especially rich in inscriptions, in works on Plato, the Greek orators, Plautus, Terence, Horace and Tacitus. Among the editions of Plautus is to be found one of the four copies known to be in existence of the so-called edition of Hermolaus, referred to by Ritschl, Parerga, p. 403, n., Opuscula II., p. 47, which is supposed to have appeared between 1493 and 1499. Among the journals are complete sets of the publications of the Academies of Berlin, Leipsic, Munich, Vienna, and Göttingen, Hermes, Philologus,

Rheinisches Museum, Mnemosyne, Bezzenberger's Beiträge, Zeitschrift für Alterthumswissenschaft, Ephemeris Epigraphica Latina, Zeitschrift für Numismatik, Mittheilungen der Arch. Inst. zu Athen, and zu Rom, *Ἐφημερὶς ἀρχαιλογικὴ*. The library contains also an excellent collection of "Scripta Philologorum." Many of the volumes are enriched with autograph notes by Professor Sauppe.

Sanskrit and Comparative Philology.

The instruction in Sanskrit and Comparative Philology is under the direction of Dr. Edward Washburn Hopkins, Professor of Greek, Sanskrit and Comparative Philology.

Lectures on Comparative Philology, and Philological Seminary, Dr. Hopkins.
Once weekly throughout the year.

Students entering this course are expected to be familiar with German and French. A short preliminary course in Sanskrit will also be of great aid to the student. The lectures on comparative philology will treat of the connection of the Greek and Latin languages with the related languages of the Aryan group, first, phonetically, secondly, from the point of view of grammatical forms, and lastly from the point of view of syntax. In the first part of the course, which covers what has been during the last few years the field of the most active research, the student will be introduced to the latest theories and discoveries in Aryan phonetics, and will be expected to read and criticise the articles appearing from time to time in the philological journals, and to prepare reports on these articles. The same method will be pursued during the investigation of the history of forms; and in the third part of the course the student will begin the study of comparative syntax by a close comparison of the use of cases and verbal forms in Sanskrit, Greek, and Latin. This course forms the fifth hour of the five hour graduate courses in Greek and in Latin.

1894–95.

Lectures introductory to Comparative Philology, Dr. Hopkins.
Once weekly throughout the year.

This course, or the preceding course, is given in each year, the difference between the two courses being that the former course presupposes a knowledge of Sanskrit.

Beginners' Sanskrit, Dr. Hopkins. *Once weekly throughout the year.*

This course is open also to undergraduate students in their fourth year. It will consist mainly of Sanskrit grammar, with selections from Lanman's Reader.

Introduction to Zend and the Zend-Avesta, Dr. Hopkins.
The number of hours will be determined later.

Greek.

The instruction in Greek is under the direction of Dr. Edward Washburn Hopkins, Professor of Greek, Sanskrit and Comparative Philology; Dr. Herbert Weir Smyth, Professor of Greek, Mr. William Cranston Lawton, Professor of Greek and Latin Literature, and Dr. George A. Barton, Associate in Biblical

Literature and Semitic Languages. The instruction offered in Greek covers twenty-six hours of lectures and recitations weekly, and includes five hours a week of elementary work, ten hours a week of undergraduate major and minor work, six hours weekly of post major work, open only to graduates and to undergraduates that have completed the major course in Greek; and five hours weekly of graduate work.

The courses are as follows:

Beginners' Course. A course of five hours weekly throughout the year, under the direction of Dr. Smyth, is provided for those students who may wish to study Greek, but whose examination for matriculation did not include it. Students that desire to continue the study of Greek are expected to read more Greek than is required of the other students, in order that in the ensuing year they may pass the entrance examination and enter upon the first year of the major course. Students that wish may substitute for this course the minor, or first year's course, in Latin, but for the course in Minor Latin, a student choosing Latin as one of the languages of her Group, may substitute a year of Post Major Latin, or a year of French, or a year of German. Either the Beginners' Course in Greek or the Minor Course in Latin is required of candidates for the degree of Bachelor of Arts that have not passed the matriculation examination in Greek.

Major Course.

FIRST YEAR.
(*Minor Course.*)

1*st Semester.*

Odyssey, Books v.–vii., ix.–x., Mr. Lawton. *Three times weekly.*
(May be taken as a Free Elective.)

Greek Prose Composition, with prose selections, Dr. Hopkins. *Twice weekly.*

Private Reading, Lysias, *Selected Orations.*

2*nd Semester.*

Plato, *Apology* and *Crito;* Andocides, *Mysteries,* Dr. Hopkins. *Four times weekly.*

Greek Prose Composition, Dr. Hopkins. *Once weekly.*

Private Reading, Euripides, *Medea.*

SECOND YEAR.
(*Major Course.*)

1*st Semester.*

History of Literature, Epic and Lyric, Mr. Lawton. *Twice weekly.*

Æschylus, *Persæ,* Dr. Hopkins. *Three times weekly.*

Private Reading, Euripides, *Hippolytus.*

2*nd Semester.*

Demosthenes, *De Corona,* Dr. Hopkins. *Three times weekly.*

Lectures on Greek Literature, Drama and Prose, Mr. Lawton. *Twice weekly.*

Private reading, Isocrates, *Panegyricus.*

The usual second year's work of the Major Course may be divided so as to cover a period of two years; but the lectures on literature must, if elected, be taken for both semesters.

In 1894–95, in the Minor Course, Dr. Hopkins will read in the second semester, Plato, *Apology* and *Crito;* Andocides, *Mysteries;* in the Major Course, in the first semester, Æschylus, *Prometheus*, and in the second semester, Thucydides, *Selections*.

In 1894–95, the private reading for the Minor Course will be Xenophon, *Memorabilia* and Euripides, *Iphigenia in Tauris;* the private reading for the Major Course will be Sophocles, *Œdipus Rex*, and Isocrates, *Panegyricus*.

Examinations on the courses of private reading will be held at the end of each semester.

Group: Greek with any language, *or* with Mathematics, *or* with Philosophy.

Post Major Courses.

Post Major courses are offered to those that have completed the Major Course; they may also be taken by graduate students.

1*st Semester.*

Lyric Poets and Theocritus, *Selections*, Dr. Hopkins.	*Once weekly.*
Demosthenes, Dr. Hopkins.	*Twice weekly.*
New Testament Greek, Dr. Barton.	*Twice weekly.*

This course will presuppose a knowledge of classical Greek. After some introductory lectures on the formation and peculiarities of the New Testament Greek, one hour weekly during the first semester will be devoted to a careful study of the text of one of the Gospels, and the other hour to lectures on the history of the New Testament text, both in its written and its printed form, on the helps extant for emending it, and the method of using them. In the second semester the subject of study will be the Epistles of Paul. The students will be expected to read privately during the first semester the text of one of the Gospels that has not been read in class, and during the second, either the Acts of the Apostles, the Apocalypse, or the Epistle to the Hebrews.

2*nd Semester.*

Plato, *Phædo*, Mr. Lawton.	*Twice weekly.*
Sophocles, *Œdipus Tyrannus*, Dr. Hopkins.	*Once weekly.*
Æschylus, *Agamemnon*, Dr. Smyth.	*Twice weekly.*
New Testament Greek (continued), Dr. Barton.	*Twice weekly.*

In 1894–95 Dr. Hopkins will read during the first semester *Selections* from the Lyric Poets and Theocritus once weekly; Sophocles, *Selections*, twice weekly; in the second semester, Æschylus, *Prometheus*, one hour weekly.

Graduate Courses.

Graduate Courses.

The graduate courses in Greek are varied from year to year (Lyric Poets, Attic Tragedy, The Historians, The Orators, and Plato), in order that they may be pursued by the student for several consecutive years. Three of these courses are required of students who offer Greek as a major subject in the examination for the degree of Doctor of Philosophy; two are required when Greek is the

only minor subject offered, and one when there are two minors. The Post Major courses are open to graduate students. A large part of the work expected of graduate students consists of courses of reading pursued under the direction of the department; and reports of works thus read will from time to time be required of the students.

Dr. Hopkins' one hour course in Comparative Philology, see page 61, forms the fifth hour of the graduate course in Greek.

Attic Tragedy, Dr. Smyth. *Four times weekly throughout the year.*

This course will consist of the reading of the entire works of Æschylus, and the critical interpretation of a selected portion. One hour a week is set apart for Seminary work on the text of a single play, two hours to translation and a running commentary upon the other tragedies, and to lectures upon various subjects connected with the drama (style, vocabulary, syntax, dialect, metres, etc.). The fourtn hour (during the first semester only) will be devoted to the study of Aristotle's *Poetics.* Each member of the class will write, during the year, one or more papers on special topics. Students taking this course are expected to provide themselves in advance with Paley's *Æschylus* (Bibliotheca Classica edition), Haigh's *Attic Theatre* (Macmillan & Co.), and Schmidt s *Rhythmic and Metric,* translated by Prof. White (Ginn & Co.).

In 1894-95 Dr. Smyth will read the Attic Orators four times weekly through the year.

This course will consist of the reading of large portions of all the Orators and the critical interpretation (in the Seminary) of a selected part of each. Lectures will be given on the legal antiquities, the syntax, and the style of the various authors, in conjunction with which Dionysius of Halicarnassus will be studied. Students taking this course are expected to provide themselves with the Teubner text editions of *Antiphon, Andocides, Lysias, Isocrates, Isæus, Aeschines,* and *Demosthenes.* The classical library is well equipped with works on the Orators.

In 1894-95 Mr. Lawton will offer a graduate course in Lost Greek and Roman Tragedies once weekly throughout the year.

This course will consist of lectures, with occasional conferences. A knowledge of both Greek and Latin, and the ability to use German books of reference will be required. The lectures will be based upon the works of Ribbeck, Nauck and Welcker. Frequent references will be made to works upon mythology and monuments of ancient art that illustrate the subject. The fragments will be translated, but the general treatment will be literary, not philological.

Latin.

The instruction in Latin is under the direction of Dr. Gonzalez Lodge, Associate in Latin, and Mr. William Cranston Lawton, Professor of Greek and Latin Literature. The instruction offered covers nineteen hours of lectures and recitations weekly, and includes ten hours a week of undergraduate major and minor lectures, four hours weekly of post major work, open only to graduates and to undergraduates that have completed the major course in Latin; and five hours weekly of graduate work.

FIRST YEAR.
(*Minor Course.*)

Major Course.

1*st Semester.*

Sallust, *Catilina;* Livy, *book XXI.;* Cicero, *pro Murena,* Dr. Lodge. *Four times weekly.*

Latin Prose Composition, Dr. Lodge. *Once weekly.*

Private Reading, Vergil, *Æneid VII., VIII.*

2*nd Semester.*

Horace, *Selections,* Mr. Lawton. *Four times weekly.*
(May be taken as a Free Elective.)

Latin Prose Composition, Dr. Lodge. *Once weekly.*

Private Reading, Vergil, *Æneid IX., X.*

SECOND YEAR.
(*Major Course.*)

1*st Semester.*

Lectures on Latin Literature, with readings from the less familiar authors, Mr. Lawton. *Twice weekly.*

Tacitus, *Annals,* Dr. Lodge. *Three times weekly.*

Private Reading, Pliny, *Selected Letters.*

2*nd Semester.*

Lectures on Latin Literature (continued), Mr. Lawton. *Twice weekly.*

Juvenal, Tibullus, Propertius, Dr. Lodge. *Three times weekly.*

Private Reading, Cicero, *Selected Letters.*

Group: Latin with any language, *or* with Mathematics.

Post Major Courses.

Five hours weekly of Post-Major Latin are offered students that have completed the Major Course in Latin.

1*st Semester.*

Lucretius, *Selections from Books I., II., III., V.,* Mr. Lawton. *Twice weekly.*

Cicero, *De Oratore,* Book I., Mr. Lawton. *Twice weekly.*

2*nd Semester.*

Catullus, Mr. Lawton. *Twice weekly.*

Plautus, *Three Plays,* Dr. Lodge. *Twice weekly.*

Latin Prose Composition, Dr. Lodge. *Once weekly.*

GRADUATE COURSES.

Graduate Courses.

Graduate work in Latin is conducted by Dr. Lodge according to the Seminary method. One department of Latin Literature or one Latin author is selected each year as a subject of study. All the best and most recent editions,

together with a large number of special treatises, dissertations, etc., are collected in the seminary library, and graduate students are encouraged to make themselves thoroughly acquainted with all the literature bearing upon the subject chosen.

Dr. Hopkins' one hour course in Comparative Philology, see page 61, forms the fifth hour of the graduate course in Latin.

Roman Drama, Dr. Lodge. *Three times weekly.*

The course consists of historical and critical lectures by the Instructor and of critical interpretation of selected passages from the principal authors by the students; abstracts and analyses of important dissertations and special treatises are presented by the students. Every student is expected to make during the year, an original study of some subject connected with the work of the Seminary.

In 1894–95, Roman Historiography will be the subject of study, and in 1895-96, Roman Epistolography.

Early Latin; Latin Syntax, *The Subordinate Sentence*, Dr. Lodge.
Once weekly during the second semester.

Dr. Lodge will also lecture on Latin Syntax one hour weekly during the second semester of each year, treating, in 1894–95, *the Verb;* in 1895-96, *the Noun.*

Candidates for the degree of Doctor of Philosophy will thus be afforded an opportunity of pursuing graduate work through three successive years.

Modern Languages.

Professors and instructors: Dr. M. Carey Thomas, Dr. Mary Gwinn, Dr. James Douglas Bruce, Dr. Hermann Collitz, Miss Rose Chamberlin, Dr. Joseph A. Fontaine, Mr. Frederic M. Page, Miss Florence V. Keys, Miss Abby Kirk, Madame Thérèse F. Colin.

English.

The instruction in English is under the direction of Dr. M. Carey Thomas, Professor of English, Dr. Mary Gwinn, Associate Professor of English, Dr. James Douglas Bruce, Associate in Anglo-Saxon, Miss Florence V. Keys, Reader in English, and Miss Abby Kirk, Reader in English. It includes two years of lectures on literature and language required of every candidate for a degree; two years of advanced English, which presupposes as much information as is contained in the required course, and may be elected in combination with the major course in any other language, or as a free elective; and graduate courses in English literature, essay work, Anglo-Saxon, and Early English.

Required Course.

The required course consists of lectures on literature and language, in which the history of English literature will be regarded as far as possible from the point of view of European literature generally, essay work, including the study of the principles of composition, and courses of private reading, which are meant to familiarise the student with English authors.

Four rhetoric papers and six essays on single authors, selected by the student with the approval of her instructor, are required of every student in this course.

FIRST YEAR.

1st Semester.

Lectures on the English language, Dr. Thomas. *Three times weekly till Xmas.*

Lectures on the history of Anglo-Saxon literature, with an introduction into the study of early Teutonic literature and mythology, Dr. Thomas. *Three times weekly after Xmas.*

Essay-work, Dr. Gwinn, Miss Kirk. *Twice weekly.*

2nd Semester.

Lectures on the history of English literature to the time of Milton, inclusive, with an introduction into the study of French mediæval literature, and a short account of Italian literature, Dr. Thomas. *Three times weekly.*

Essay-work, Dr. Gwinn, Miss Kirk. *Twice weekly.*

SECOND YEAR.

1st Semester.

Lectures on the history of English literature from Milton to the Restoration, inclusive, with a short account of the literature of France in the 17th and 18th centuries, Dr. Thomas. *Three times weekly.*

Essay-work, Dr. Gwinn, Miss Keys. *Twice weekly.*

2nd Semester.

Lectures on the history of English literature from the Restoration to the present time, Dr. Thomas. *Three times weekly.*

Essay-work, Dr. Gwinn, Miss Keys. *Twice weekly.*

Parallel courses of private reading, on which weekly examinations are held, are arranged in connection with the lectures, and the writing of essays will form part of each year's work.

The courses of the first and second year will be given alternately, the first in 1893-94, and the second in 1894-95, and may be attended in reverse order.

Major Course.

The Major Course in English differs slightly from the other major courses of the college, in that it must always have been preceded by two years' undergraduate study of English in the required course, and is intended for graduate students or for those undergraduate students who are exceptionally anxious to specialise in English. Either year may be taken separately as a Free Elective by students that have completed the required course.

FIRST YEAR.

Language—Minor Course.

1st Semester.

Anglo-Saxon Grammar and reading of Anglo-Saxon texts, Dr. Bruce.

Five times weekly.

The course in Anglo-Saxon begins with Sievers' *Anglo-Saxon Grammar* and the prose contained in Bright's *Anglo-Saxon Reader*. Poetical Selections from Bright's *Reader* and portions of *Beowulf* are next read with the class, with especial attention to grammatical forms and the elements of historical grammar.

2nd Semester.

Early English Grammar and the reading of Early English Texts, and Chaucer, Dr. Bruce. *Five times weekly.*

In addition to the work in Chaucer this course will include the study of Sweet's *First Middle English Primer* and readings from the chief documents of Transition English.

SECOND YEAR.

Literature—Minor Course.

English Poets of the Nineteenth Century, Dr. Thomas. *Twice weekly.*

English Essayists and Critics of the Nineteenth Century, Dr. Gwinn.

Three times weekly.

The year is essentially a year of seminary work and essay-writing.

The authors studied may be varied from year to year. The poets usually chosen are Shelley, Byron, Keats, Leigh Hunt, Wordsworth, Coleridge, and Browning; the essayists and critics, Matthew Arnold, Mr. Swinburne, and Mr. Pater.

Group: English with any language.

Graduate Courses.

GRADUATE COURSES.

There will be offered each year two distinct graduate courses in English, one in literature and one in language, and these courses will be so varied that they may be followed by the graduate student throughout three years. The graduate courses in literature presuppose at least as much knowledge as is obtained in the two years' course of undergraduate lectures on English literature; and the graduate courses in Anglo-Saxon presuppose as much knowledge of Anglo-Saxon as is obtained in the language year in the English Major.

Students that choose English as their chief subject in their examination for the degree of Doctor of Philosophy must have, if they specialise in literature, at least as much knowledge of Anglo-Saxon and Early English, and if they specialise in language, at least as much knowledge of literature, as is obtained in the courses required of those students who make English one of the chief subjects of undergraduate study, and must have taken at least one course in essay-work.

Literature. The graduate instruction in English literature will include the direction of private reading and the assignment of topics for investigation.

The Elizabethan and Jacobean Drama, Dr. Thomas.

Twice weekly throughout the year.

This course is not given in 1893-94.

The time required for reading in connection with the lectures makes this course the equivalent of four hours weekly. During the first semester the Mystery and Miracle Plays and the chief works of the pre-Shakespearean Drama are read privately by the class and discussed in detail in the lectures and conferences, different plays being assigned to different members of the class for report and discussion. In the second semester Shakespeare's histories, and seven or eight of his other plays are read critically and the remaining plays are studied privately by the members of the class. The chief plays of the other Elizabethan and Jacobean dramatists are read in connection with the different periods of Shakespeare.

The Elizabethan and Jacobean Drama, and the Drama of the Restoration, Dr. Gwinn. *Three times weekly throughout the year.*

This course is not given in 1893–94.

This course, which is meant to be taken in connection with the course conducted by Dr. Thomas, deals in the first semester with the Critics of the Drama, and with Heywood; in the second semester with the dramatists of the Restoration. The time required for reading and for the preparation of written papers makes the course the equivalent of three hours weekly.

English Critics of Life: Burke, Carlyle, and Ruskin, Dr. Gwinn.
Three times weekly throughout the year.

This course corresponds to some extent to the course on English Essayists and Critics of the Nineteenth Century. Much of the work consists of private reading and the preparation of written papers. The class will, as a rule, meet twice weekly for discussion.

Review of Rhetorics, Dr. Gwinn. *Once weekly throughout the year.*

This course may be taken by undergraduate students as a Free Elective, or may by permission be substituted for one hour of the First Year's work of the Major Course in English. Mr. Herbert Spencer's Philosophy of Style, the main differences between the style of poetry and that of prose and the main requisites of a prose style, as formulated by Coleridge, Matthew Arnold, Mr. Saintsbury, Mr. Pater, Professor Bain, Professor Minto and other critics, the outlines of the historical development of English prose and the outlines of Greek and Roman rhetoric will be discussed in class.

Seventeenth Century Prose Writers, Dr. Gwinn. *Once weekly throughout the year.*

This course may be taken by undergraduate students as a Free Elective, or may by permission be substituted for an hour of the First Year's work of the Major Course in English. The work will consist almost wholly of private reading and the preparation of short papers. Bacon, Hooker, and Walton will be studied in the first semester.

Beowulf, Dr. Bruce. *Once weekly throughout the year.* *Language.*

The critical reading of Beowulf is supplemented by lectures on the style of the Old English Epic and the chief theories concerning the composition of Beowulf; also, on questions of Teutonic origins suggested by the text. Especial attention is given to an exposition of the theories of the structure of Alliterative Verse.

Old English Phonology, Dr. Bruce. *Once weekly throughout the year.*

This course consists of lectures on the History of English Sounds in the Anglo-Saxon period with especial reference to their development out of the general Teutonic. It is intended as introductory to a similar course on the History of English Inflections.

In the year 1894–95 Dr. Bruce will offer a course of lectures on Middle English Phonology. This course is designed as a continuation of the course in Old English Phonology given in preceding years. It consists of lectures on the history of English sounds in the period named, with special reference to their development from the Anglo-Saxon. Practical exercises in the application of the laws expounded will accompany the lectures.

Elene and Andreas, Mr. Bruce. *Three times weekly throughout the year.*

This course is primarily intended to give to students who have already made some advance in Anglo-Saxon, a more general acquaintance with the best pieces of Anglo-Saxon literature outside of *Beowulf*. It is accompanied by grammatical and metrical exercises. A similar course for the Middle-English period is intended to succeed it.

English Seminary, Dr. Thomas, Dr. Bruce.

Two hours fortnightly throughout the year.

The most advanced graduate students in English are expected to unite with the instructors in the English seminary. Reports are assigned to individual members, which are then read and discussed by the whole seminary; and all the members of the seminary are required to make themselves familiar with the literature of the special topic selected for each meeting.

In the year 1892–93 the subject was Chaucer. The *Knight's Tale*, and subsequent treatments of the same theme in English Literature, were first studied comparatively, and the problems concerning the relation of this work to the older *Palamon and Arcite* were thoroughly discussed. The tales of the *Second Nun*, *The Clerk*, *Man of Law* and *Squire* were taken up in a similar manner; also, *The House of Fame*, *The Legend of Good Women*, and the *Romaunt of the Rose*. The work of the seminary consisted of reports by individual students, the literature of each subject being assigned at the close of the preceding meeting by the professor presiding. An attempt was made to secure an exhaustive examination of the literature of each successive subject, whether existing in English or in foreign books, articles or dissertations. After the reading of reports, the members of the seminary took part in a free and full oral discussion of the matter presented.

In the year 1893–94 the seminary is conducted by Dr. Bruce. The subject of the year is Anglo-Saxon Literature. The various branches of the Anglo-Saxon Literature are taken up in the same order of discussion as in the third division of Wülcker's *Grundriss*, and the most important and most recent literature in the form of dissertations and articles in scientific periodicals is assigned to members of the class for report and discussion. Lectures on subjects relating to particular pieces are also given from time to time.

German.

The instruction in German is under the direction of Dr. Hermann Collitz, Associate Professor of German and Teutonic Philology, and Miss Rose Chamberlin, Reader in German.

Beginners' Class. A class for beginners in German, under the direction of Miss Rose Chamberlin, five hours weekly throughout the year, is provided, in order that those students whose matriculation examination did not include German may with less difficulty obtain the reading knowledge of it that they must possess before receiving a degree. By great diligence such students may, it is hoped, acquire sufficient knowledge to be admitted, should they desire it, into the Major Course in German.

Conversation Class. A class for German conversation will meet, in the afternoon or evening, once weekly throughout the year. It may be attended by any student that has passed the matriculation examination in German.

Major Course. The Major Course presupposes as much knowledge as is implied by the matriculation examination in this subject.

FIRST YEAR.

(Minor Course.)

1*st Semester.*

Lectures on the History of German Literature from Klopstock to the present time, Dr. Collitz. *Twice weekly.*

These lectures are delivered in German and treat the great classical authors, as well as the most modern poets and novelists; they are open as a Free Elective to all students that have passed the matriculation examination in German.

Schiller, *Wallenstein*, Miss Chamberlin. *Twice weekly.*
German Prose Composition and Reading, Miss Chamberlin. *Once weekly.*
German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which examinations will be held during the semester, is as follows: Lessing, *Emilia Galotti;* Goethe. *Iphigenie;* Schiller, *Selections from the Thirty Years' War*, or *Egmont. Selections from the Thirty Years' War*, or *Egmont*, is the private reading for those that elect the course in *Wallenstein* only. The remaining works are to be read in connection with the lectures on literature.

2*nd Semester.*

Lectures on the History of German Literature from Klopstock to the present time (continued), Dr. Collitz. *Twice weekly.*
Goethe, *Faust* (1*st Part*), Miss Chamberlin. *Twice weekly.*
German Prose Composition and Reading, Miss Chamberlin. *Once weekly.*
German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which examinations will be held during the semester, is as follows: *Selections from Volksbücher, Commentators, etc.*; Schiller, *Don Carlos, Braut v. Messina. Selections from Volksbücher, Commentators, etc.* is the private reading for those that elect the course in *Faust* only. The remaining works are to be read in connection with the lectures on literature.

SECOND YEAR.

(Major Course.)

1*st Semester.*

The History of German Literature from the earliest times to the time of Klopstock, exclusive, Dr Collitz. *Twice weekly.*

These lectures, which are delivered in German, begin with the account of German civilisation found in classical authors, and include Ulfilas, the time of Charlemagne, the fragments of heathen poetry, the Hêliand, Otfried, the Nibelungenlied, and the Heldenbuch, the time of Wolfram, Gottfried, Hartmann, the Minnesingers and Meistersingers, Sebastian Brandt, Hans Sachs, etc.

Max Müller, *The German Classics* (1*st Part*), Dr. Collitz. *Once weekly.*
Goethe, *Faust* (2*nd Part*), Miss Chamberlin. *Once weekly.*
German Prose Composition and Reading, Miss Chamberlin. *Once weekly.*
German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which examinations will be held during the semester, is as follows: Lessing, *Minna v. Barnhelm, Nathan der Weise, Selections from Laokoön*, in connection with the lectures on literature; *Selections from Commentators*, etc., for those that elect the course in *Faust* only.

2*nd Semester.*

The History of German Literature from the earliest times to the time of Klopstock, exclusive (continued), Dr. Collitz. *Twice weekly.*

Max Müller, *The German Classics* (1*st Part*), Dr. Collitz. *Once weekly.*

Goethe, *Faust* (2*nd Part*), Miss Chamberlin. *Once weekly.*

German Prose Composition and Reading, Miss Chamberlin. *Once weekly.*

German Conversation Class, Miss Chamberlin. *Once weekly.*

The private reading, on which examinations will be held during the semester, is as follows: Goethe, *Tasso;* Scheffel, *Ekkehard;* Keller, *Dietegen*, in connection with the lectures on literature; *Selections from Commentators* for those that elect the course in *Faust* only.

Group: German with any language.

Graduate Courses.

GRADUATE COURSES.

The following graduate courses are offered:

Middle High German Grammar and reading of Middle High German Texts, Dr. Collitz. *Twice weekly throughout the year.*

This course includes a brief abstract of Middle High German grammar, with especial reference to the difference between Middle High German and Modern German, and a study of the most prominent authors in Middle High German. Part of Hartmann's *Armer Heinrich* is read, and is followed by selections from the *Nibelungenlied*, a brief account being given of the "Nibelungenfrage" and of the manuscripts of the *Nibelungenlied.* In the second semester, Middle High German lyric poetry will be studied in selections from Walther von der Vogelweide and other Minnesingers, and from the Middle High German knightly epic poetry in the poetry of its three main representatives: Hartmann (*Iwein*), Wolfram von Eschenbach (*Parzival*), and Gottfried von Strassburg (*Tristan*).

This course is required of all students that make German the major subject in their examination for the degree of Doctor of Philosophy.

The private reading will include the entire works of the authors treated in the course.

In 1894–95 Miss Chamberlin will offer the following graduate course:

Middle High German. *Twice weekly throughout the year.*

This course will consist of the elements of grammar and the reading of the Nibelungenlied.

GENERAL TEUTONIC PHILOLOGY.

The instruction in this department is under the direction of Dr. Hermann Collitz, Associate Professor of German and Teutonic Philology. Special attention is called to the facilities for the study of Comparative Teutonic Philology offered in Bryn Mawr College. The English and the German departments together have provided for a complete course in Teutonic Philology, comprising both the study of the individual languages (Gothic, Norse, Anglo-Saxon, Old Saxon, Old High German, Middle High German, Platt-Deutsch, etc.) and that of general comparative philology.

There is still much opportunity for original work in Teutonic philology; and it is hoped that students who have completed the full course will be able to take an active part in it.

Gothic, Dr Collitz. *Twice weekly throughout the year.*

Gothic phonetics and inflection are studied in connection with the elements of comparative Aryan grammar.

As a thorough knowledge of Gothic is the foundation of the study of historical and comparative Teutonic grammar, every graduate student in Teutonic grammar is advised to take this course as early as possible.

Old Norse, Dr. Collitz. *Once weekly throughout the year.*

This course is intended as an introduction to the study of Old Norse language and literature. As students entering this course are supposed to be acquainted with Gothic and with Anglo-Saxon or Old High German grammar, their attention will be called in the grammatical part of the course to the relation between Gothic and Norse, and to the differences between the East Teutonic and West Teutonic branches. Among the texts to be read, selections from the younger and the older *Eddas* will take a prominent place. In connection with the latter, the old Teutonic heroic verse and Prof. Sievers' system of metrics will be explained.

Outlines of Teutonic Philology, Dr Collitz. *Twice weekly throughout the year.*

The study of Comparative Teutonic Philology is recommended to those students only who are acquainted with the single old Teutonic languages, and have studied Gothic, Old High German, Old Saxon, Anglo-Saxon, and Norse. The object of the course is to compare the single old Teutonic languages with each other and with the related Aryan languages,—or in other words (1) to reconstruct the primitive Teutonic languages; (2) to point out the characteristic features of primitive Teutonic in distinction from primitive Aryan; (3) to carry down the history of early Teutonic from the period of unity into the early stages of the individual Teutonic languages. Together with Teutonic phonetics and inflection some problems of a more general character will be discussed, such as the question of relationship of dialects, of consistency of phonetic laws, etc.

Romance Languages.

French.

The instruction in Romance Languages is under the direction of Dr. Joseph A. Fontaine, Associate Professor of Romance Languages, Mr. Frederic M. Page, Reader in Romance Languages, and Madame Thérèse F. Colin, Fellow in Romance Languages.

Beginners' Class.

A class for beginners in French, under the direction of Mr. Page, five hours weekly throughout the year, is provided, in order that those students whose matriculation examination did not include French may with less difficulty obtain the reading knowledge of it that they must possess before receiving a degree. By great diligence such students may, it is hoped, acquire sufficient knowledge to be admitted, should they desire it, into the Major course in French.

Conversation Class.

Opportunities for oral practice in French will be extended during the year in both minor and major courses. An hour in French conversation is

offered by Dr. Fontaine, and is open to all students. This hour cannot be counted towards a degree except by students electing the French Minor, and need not be registered in their course books.

Entrance to the Minor Course in French presupposes as much knowledge as is required to pass the matriculation examination in that subject. All the work in French will be conducted in the French language.

Major Course.

FIRST YEAR.

(*Minor Course.*)

Lectures on the History of French Literature of the 18th and 19th Centuries, accompanied by collateral readings of representative French authors, Dr. Fontaine. *Twice weekly throughout the year.*

These lectures are delivered in French, and students are expected to take notes and make answers in French. The aim of these lectures is to familiarise the students with the spoken language of France, and to form, cultivate, and direct their literary taste.

Critical Readings in French Prose and Poetry, Madame Colin.
Once weekly throughout the year.

Practical Exercises in French Syntax, Composition, etc., Madame Colin.
Once weekly throughout the year.

Oral Practice in French; Talks on French Literature, Language, etc., Dr. Fontaine. *Once weekly throughout the year.*

The collateral private reading on which examinations, at stated intervals, are held is as follows: some of the dramas and historical prose of Voltaire, some of the philosophic prose of Rousseau, selections from the prose of Diderot and Montesquieu, the comedies of Beaumarchais, the poems of André Chénier, portions of the *Génie du Christianisme* and other works of Chateaubriand, works of Mme. de Staël in part; representative works and selections from works of the great Romanticists and other nineteenth century authors, Lamartine, Victor Hugo, Alfred de Musset, Alfred de Vigny, George Sand, Balzac; also contemporary prose and dramas. This reading matter is specially selected with a view to representing the literature of the period and to illustrating the subject matter of the lectures.

SECOND YEAR.

(*Major Course.*)

Lectures on French Literature of the 16th and 17th Centuries, accompanied by collateral reading of representative French authors, Dr. Fontaine.
Twice weekly throughout the 1st Semester.

Lectures on Modern French Literature from the year 1850 to the most recent times, Dr. Fontaine. *Twice weekly throughout the 2nd Semester.*

Critical Readings and Studies in the great masterpieces of the 16th and 17th Centuries, Dr. Fontaine. *Once weekly throughout the year.*

Studies in French Style, Composition, etc., Dr. Fontaine.
Once weekly throughout the year.

Advanced Oral Practice, Writing of French Essays, and Talks on various subjects of interest to students of French, Dr. Fontaine.
Once weekly throughout the year.

The collateral private reading, on which examinations, at stated intervals, will be held, consists of selections from the leading authors of the sixteenth century, Montaigne, Calvin, from the *Satire Ménippée*, from *Ronsard and the Pléiade*, *Robert Garnier*, and others. An extensive course is marked out in the classics of the seventeenth century, which will be made as far as possible representative, and will accompany and illustrate the lectures. In connection with the lectures on Corneille and Racine, for example, *Le Cid*, *Horace*, *Cinna*, *Polyeucte*, *Le Menteur*, *Andromaque*, *Phèdre*, *Athalie*, *Les Plaideurs*, and selections from *Britannicus*, *Mithridate*, and *Esther* are read. The amount of private reading assigned to students is so great that a critical interpretation is not required, the main point being that they should be thoroughly acquainted with the contents. It is expected that idiomatic phrases or syntactic complications will offer no serious difficulties to students in the French major course. Molière, Malherbe, Boileau, La Fontaine, Régnier, Pascal, La Rochefoucauld, Mme. de Sévigné, the great pulpit orators, and others, find a place in the course.

Group: French with any language; *or* French with Italian and Spanish.

GRADUATE COURSES.

Graduate Courses.

Post-major and graduate courses in Old French, Romance Literature, and Philology will be offered. They will be varied from year to year, and the number of courses and the hours given to each course weekly will be determined by the needs of the students.

The graduate literary work is directed towards a special treatment of some such subjects as the development of the early French theatre; French tragedy in the 18th century; the Romantic drama; conditions and tendencies of modern French literature, considered together with modern French criticism.

Graduate students interested in the study of literature will find it to their advantage to attend Dr. Fontaine's lectures on French literature twice weekly throughout the two years of the major course in French.

Old French Phonetics, Dr. Fontaine. *Twice weekly throughout the year.*

Old French Literature and Comparative Syntax, Dr. Fontaine. *Once weekly throughout the year.*

French Drama, Dr. Fontaine. *Once weekly throughout the year.*

In 1894-95 Dr. Fontaine will offer courses in the Critical Reading of Old French Texts, twice weekly; French Philology (Morphology and Phonetics), comparative study of Old and Modern French Syntax; Comparative Romance Philology (Morphology and Phonetics); Comparative Survey of French, Italian and Spanish Literature; Dramatic French Literature, from its earliest period down to the 16th Century.

Italian and Spanish.

The instruction in Italian and Spanish is under the direction of Dr. Joseph A. Fontaine, Associate Professor of Romance Languages, and Mr. Frederic M. Page, Reader in Romance Languages.

FIRST YEAR.

(*Minor Course.*)

Major Course.

Italian, Mr. Page. *Three times weekly throughout the year.*

Although the instruction, during the first year in Italian, must necessarily be linguistic rather than literary, the texts employed in class and for the private reading are of such quality and number as to lead the student to appreciate in a certain measure the range of modern Italian literature.

Besides a systematic course in Italian grammar and composition, the year's work includes the critical reading of Barrili's *Notte Bizzarra;* De Amicis' *Camilla;* thirty cantos selected from Dante's *Inferno* and *Purgatorio;* Pellico's *Francesca da Rimini;* also selections from Manzoni's *Promessi Sposi;* De Amicis' *Vita Militare* and Tasso's *Gerusatemme Liberata.* As soon as practicable a certain amount of private reading is assigned.

Spanish, Mr. Page. *Twice weekly throughout the year.*

The first year's course in Spanish follows, as far as possible. the plan adopted in the Italian.

The material for class and private reading is mainly drawn from the works of nineteenth century authors. such as Fernan Caballero, Selgas, Valera, Castelar, etc.; but it also includes three dramas selected from the works of Lope de Vega, Calderon, and Alarcon.

SECOND YEAR.

(*Major Course.*)

Italian, Mr. Page. *Three times weekly throughout the year.*

The second year's course includes: *a*, a critical study of Dante's *Paradiso* and *Vita Nuova*, and selections from Ariosto's *Orlando Furioso;* also a survey of the Italian literature of the fourteenth and fifteenth centuries; and *b*, one representative drama from the works of Goldoni, Alfieri and Manzoni, and a critical survey of the Italian literature of the beginning of the nineteenth century.

A course of private reading is selected to represent the Italian literature of the first quarter of the nineteenth century.

Spanish, Mr. Page. *Twice weekly throughout the year.*

The principal subjects of study for the second year are drawn: *a*, from the Spanish literature of the seventeenth century, *i.e.*, the best works of Cervantes and the great dramatists; and *b*, from the works of the more modern literary movement in Spain.

The private reading is selected from nineteenth century authors.

Group: Italian and Spanish with any language.

CELTIC AND SLAVONIC LANGUAGES.

Dr. Hermann Collitz, Associate Professor of German and Teutonic Philology, will offer courses in these languages to students of comparative Aryan or of comparative Teutonic philology. Such students will find it of great advantage to gain at least some knowledge of Old Irish and Old Slavonic. Courses will also be arranged for students that prefer to study Lithuanian or any of the more important living Slavonic languages (Russian, Polish, or Servian).

SEMITIC LANGUAGES AND BIBLICAL LITERATURE.

The instruction in Semitic Languages is under the direction of Dr. George A. Barton, Associate in Biblical Literature and Semitic Languages.

The courses in Semitic languages and Biblical studies will be varied from year to year, so as to form a three years' course for those students who wish to make them the chief subject in the

examination for the degree of Doctor of Philosophy; not more than ten hours of lectures will be given in any one year, the courses selected being decided by the needs of the students.

The College was particularly fortunate in securing in the year 1892 the library of the late M. Arthur Amiaud, of Paris. While M. Amiaud was especially eminent as an Assyriologist, he was also prominent as a general Semitic student. His library was the collection of an active scholar, and forms a working library for the student in every department of Semitic study. It is particularly rich in the Hebrew, Syriac, and Assyrian languages, containing several works, indispensable to the student, which are now out of print. These books, together with those already owned by the College and those easily accessible in neighboring libraries, form a good equipment for the specialist in Biblical or Semitic study.

Semitic Languages.

Assyrian, Dr. Barton. *Twice weekly throughout the year.*

For students of ancient oriental history and of Semitic religion Assyrian is of especial importance. It is generally recognised as almost indispensable to those who purpose to teach Semitic languages, or to become students of Hebrew history and prophecy. The complicated nature of the written character and the absence of adequate dictionaries make a knowledge of some other Semitic tongue important for the study of Assyrian.

The reading of transliterated texts will begin with the first lesson, the texts being taken mainly from the classical Assyrian period (1100–650 B.C.), and especially from that of the dynasty of Sargon.

A few of the written characters will be learned daily, and as soon as learned will be used in writing exercises and reading texts in the original. The Assyrian account of the deluge and some of the creation tablets will be read in class.

Courses in more advanced Assyrian, and in the Hebrew, Phœnician, Arabic, and Ethiopic languages, will be given from time to time, according to the demands of the students.

Biblical Literature.

Patristic Greek, especially the sub-Apostolic literature, Dr. Barton. *Twice weekly throughout the year.*

This course will presuppose a knowledge of classical Greek. Its object is two-fold: first, to gather patristic material for New Testament criticism; and, secondly, to gain a view of the history of the early Christian Church. The reading is selected from Clement of Rome, Ignatius, Polycarp, the Epistle of Barnabas, the Epistle to Diognetus, and the Shepherd of Hermas. It is accompanied by a discussion of the critical questions connected with the authors read, and an introduction to the works of the principal Fathers down to Chrysostom and Augustine. This course will alternate with one of the Semitic courses.

Advanced Biblical Literature, Dr. Barton. *Twice weekly throughout the year.*

This course is devoted to a study of the literary problems of the Biblical books. During the first semester the critical questions of the Old Testament are studied as fully as the time will allow, while the second semester is devoted to a similar study of the New Testament. In addition to the lectures, reports are required from the students of

readings assigned in the works of the leading scholars on both sides of the critical questions, and the students are helped to find the truth for themselves. Special topics are also assigned for investigation.

Historical Outlines of Christian Thought, Dr. Barton.

Once weekly throughout the year.

This course will be offered for the first time in 1894–95. The lectures will give a brief survey of Christian thought in the epoch-making periods of its history, the necessary historical background being supplied by assigned readings in works on ecclesiastical history. A sketch will be given of the state of Christian thought at the end of the first century, the Ebionitic, Gnostic, and Montanistic movements of the second century and the positions taken by Irenæus, Tertullian, and Clement of Alexandria will be treated, the thought of the Alexandrian Fathers of the period being especially emphasized. The work of Athenasius, the system of Augustine, its causes, and its influence on the Middle Ages will next be considered. The Reformation and the theology of Luther, Zwingli, and Calvin will be outlined, and an especial study will be made of the condition of England in the seventeenth century and of the rise of the Society of Friends, the historical affinities of their thought and their relationship to the various religious and philanthropic movements of the seventeenth and succeeding centuries. The course will close with a sketch of the Deistic movement in England and France, the Aufklärung and rationalistic movements in Germany, the thought of Schleiermacher, the origin and effects of Biblical criticism, and the renaissance of modern theology.

The Cuneiform Inscriptions and the Old Testament, Dr. Barton.

Once weekly throughout the year.

This course is given largely by lectures, in which the following topics are treated:— a sketch of the history of the Babylonian-Assyrian peoples, based on their own records; a brief study of the every-day life of the people as revealed in their commercial documents; the literature and art of Assyria and Babylon; and lastly, the numerous points at which the cuneiform inscriptions touch Israelitish thought and history are discussed and compared with the corresponding Old Testament passages.

Seminary, Dr. Barton. *Once fortnightly throughout the year.*

Twice in every month a Seminary is held at which a report of investigations of some topic in Biblical or Semitic study is made by the students, and discussed by the members of the Seminary. A general topic is selected for each semester.

In 1894–95 courses will be offered by Dr. Barton in Hebrew; Aramaic; History of Israel to the fall of Jerusalem; History and Progress of Religious Ideas in Israel; History of the Spanish and the Bagdad Califates.

The final arrangement of courses will be determined by the needs of the students.

History and Political Science.

Professors and instructors: Mr. Franklin H. Giddings, Dr. Charles McLean Andrews.

History.

The instruction in history is under the direction of Dr. Charles McLean Andrews, Associate in History.

The object of the courses in history is three-fold. Primarily, history is taught for its own sake as a record of the develop-

Note.—For an introductory course on the origin and contents of the books of the Bible see page 84, and for a course in New Testament texts see page 63.

ment of humanity, secondarily as a necessary accompaniment to the study of political institutions, and finally as a framework for other forms of research, linguistic, religious, or archæological. The course is planned to develop in the students a readier historical imagination, a critical sense and a consciousness of historical growth, rather than to give them a mere outline of general history. The instruction consists mainly of lectures, which are designed to create an interest in and a truer conception of the broad lines of historical development, while constant references are given for private reading, to stimulate accuracy in detail and independence in judgment.

Major Course.

First Year.—1893-94.

(*Minor Course.*)

(*The lectures of this course will be given in alternate years. The course, with necessary changes, will be given again in* 1895-96.)

1*st Semester.*

The History of Mediæval Europe to the Period of the Renaissance, Dr. Andrews. *Five times weekly.*

This course opens with a few lectures on the contribution of ancient civilisation to mediæval life, with special reference to the influence of Rome. From this point the design is to trace the fall of Rome and the rise of new nationalities; the growth of Frankish power; the empire of Charles the Great; the gradual nationalisation of France and Germany; the growth and influence of the Church; the Feudal System and the rise of French monarchy; the rapid extension of Mohammedanism and its points of contact with Europe; the struggle between the Papacy and the Holy Roman Empire; the scope and results of the crusading movement.

2*nd Semester.*

From the Period of the Renaissance to the close of the Religious Wars, Dr. Andrews. *Five times weekly.*

The lectures trace the growth of the humanities and the phases of religious change; the broadening of knowledge in letters, geography and science; the extension of commerce and the struggle for privileges and constitutional liberty; the weakening of the Papacy and the failure of the Holy Roman Empire; the spirit of reform; the growth of Protestantism and the counter measures; the war in the Netherlands; the religious and political struggles in France; the Thirty Years' War. The course closes with the Treaty of Westphalia.

Second Year.—1894-95.

(*Minor Course.*)

(*The lectures of this course are given in alternate years.*)

1*st Semester.*

From the Treaty of Westphalia to the close of the Napoleonic Campaigns, Dr. Andrews. *Five times weekly.*

This course, which is a continuation of the previous year's work, treats of the territorial expansion of France in the 18th century; the rise of French absolutism; the theory of the balance of power; the growth of nationality and international relations;

the Seven Years' War and the rise of Prussia; the political, social, economic, religious and philosophical conditions of France leading to reform, revolution and anarchy; the growth of the moderate spirit under the Directory; the rise of Napoleon and the Empire; and the general European war, to the Congress of Vienna.

2nd Semester.

From the Congress of Vienna to the Present Time, Dr. Andrews.

Five times weekly.

This course is planned to give a general outline of the history of the 19th century, with special reference to France, Germany, Russia, Italy, Turkey, and Spain, and incidental reference to Sweden, Switzerland and other minor countries. The lectures trace broadly the phases of reaction against legitimism and Metternichism, the growth of liberal ideas and constitutional government, the rise of the policy of non-intervention, the growth of the national spirit, and the conditions and circumstances which have led to the reorganisation of the political map of Europe.

Group: History with Political Science.

Post-Major Course.

POST-MAJOR COURSE.

English and American Constitutional History, Dr. Andrews.

Twice weekly throughout the year.

English Constitutional History is examined as a necessary introduction to the study of American institutions.

Graduate Courses.

GRADUATE COURSES.

Two courses are offered to graduate students in history in addition to direction in private reading and original research.

Historical Definition, Method and Criticism, Dr. Andrews.

Twice weekly throughout the year.

This course opens with lectures upon the various theories of history held during antiquity, in the middle ages, and the present time. In these lectures the theories of Machiavelli, Bodin, Bossuet, Vico, Voltaire, Rousseau, Turgot, Condorcet, Herder, and the modern schools are presented and compared. The further topics treated are the argument for and against a philosophy and science of history, the divisions and limits of history, the different classes of historical writing, the great collections of material in Germany, France, Italy, England and America, and the methods employed in treating such materials: historical criticism from the Renaissance to the present time, including the different kinds of evidence and their treatment, critical analysis, aids to evidence, geography, archæology, etc.

Sources of English History, Dr. Andrews. *Twice weekly throughout the year.*

As introductory to the regular work of this course a series of lectures is given on the printed collections of material from the 17th century to the present time. Three classes of material are discussed, (*a*) non-official material published by the English government, (*b*) official material published by the government, (*c*) private publications of individuals and societies. In this connection as full an account as possible is given of all commissions and societies, existing or defunct, appointed or organised for these purposes. The regular work of the class consists of the reading of portions of the historians and chroniclers contained in the Monumenta Historica Britannica and the Rolls series; the study of the laws and charters in Schmid, Kemble and Earle; of important texts in Rymer, Stubbs, Bémont and other available sources. In all cases where fac-similes are obtainable, as of Anglo-Saxon deeds and grants, of Domesday Book and Magna Carta, a small amount of paleographical work is done with Prou and Martin as guides.

In the year 1894-95 Dr. Andrews will offer an additional graduate course in the History of Roman Law, once weekly throughout the year.

Law is studied from an historical rather than from a purely legal point of view. The object is rather to observe the steps by which custom and rules of conduct took on legal form; to examine the character of the early family law and its extension beyond the family; the nature of the early constitution of Rome; the Servian reforms; the Twelve Tables; the ancient forms of procedure; the struggle between the Patricians and Plebeians, and their gradual equalisation; the effects of the struggle upon the law; the Prætorian legislation, the Jus gentium, Jus naturale, the influence of the Stoic philosophy, and the Christian religion; the period of the great lawyers and the attempts at codification; final codification by Justinian and the later influence through the barbarian tribes, the Church and the universities. A knowledge of Latin is indispensable for this work.

Political Science.

The instruction in political science is under the direction of Mr. Franklin H. Giddings, Professor of Political Science.

The objects of the courses in political science are, first, to cultivate a scientific habit of thought in regard to all social phenomena whatsoever; and secondly, to lay a basis of sound knowledge for an intelligent interest in public affairs, and for original work or professional studies in economics, law, administration or philosophical sociology. To this end instruction is offered in political economy, including economic history; in the evolution of political institutions, including public law and administration, and in modern theories of sociology. Minor, major and post-major, and graduate courses are given each year. The major and post-major courses are combined, the major lectures of any year being different in subject and treatment from those of the year before, so permitting students that desire it to take post-major work by following the major course for two successive years. The lectures are accompanied by constant class work, and by seminary exercises. Private reading is assigned, with the aim of developing independent thinking and research.

First Year. ***Major Course.***

(*Minor Course.*)

1*st Semester.*

Political Economy, Mr. Giddings. *Five times weekly.*

This is a fundamental course, including a drill in the principles of the classical English political economy as the indispensable basis of further study. It is illustrated by the facts of economic history, including the manorial community of the Middle Ages, follows the growth of industry and commerce, analyses the industrial revolution, 1760–1846, and reviews the economic developments of recent times.

2*nd Semester.*

Political Institutions, Mr. Giddings. *Five times weekly.*

The aim of this course is to show how political institutions of every description, the world over, have been evolved from a few primary forms. Their development is traced from simple beginnings in tribal society through various transformations, monarchical, oligarchical and democratic, to their complicated forms in modern nations. The theory of legal rights and duties is presented, important definitions are given, and the fundamental principles of Continental, English, and American constitutional law are studied. The course concludes with lectures on methods of administration.

SECOND YEAR, 1893-94.

(*Major Course.*)

(*The lectures of this course are given in alternate years. The course, with some changes, will be given again in* 1895-96.)

1*st Semester.*

Advanced Political Economy, Mr. Giddings. *Five times weekly.*

The special subjects taken up in this course are, the Labor Question, the Land Question, Socialism and the relations of the State to property, industry and the poor.

2*nd Semester.*

Political Theories, Mr. Giddings. *Five times weekly.*

The leading political theories from Aristotle to Hegel, Mill, and Spencer are critically reviewed.

SECOND YEAR, 1894-95.

(*Major Course.*)

(*The lectures of this course are given in alternate years.*)

1*st Semester.*

Advanced Political Economy, Mr. Giddings. *Five times weekly.*

The special subjects are, Money, Bimetallism, the Tariff History of the United States, Public Debts, Taxation and Municipal Economy.

2*nd Semester.*

International Law, Mr. Giddings. *Five times weekly.*

Group: Political Science with History, *or* with Philosophy.

Graduate Courses. The advanced work in political science comprises two courses, namely, one in political economy, and one in sociology. These courses will not be open to any undergraduate students.

GRADUATE COURSES.

Two Graduate Courses are given each year.

Political Economy, Mr. Giddings. *Once weekly throughout the year.*

This is a course of advanced theory and method, designed especially for Fellows and graduate students that look forward to original work or teaching. Particular attention is given to recent theoretical work. A reading knowledge of French and German is indispensable.

Sociology, Mr. Giddings. *Once weekly throughout the year.*

A course of thirty lectures will be given on general sociology. The various attempts that have been made to construct a philosophical science of society as an organic whole will be examined, and the field of sociology, as a study distinct from history, politics,

and economics, will be defined. The causes and laws of social change will be sought, and the lectures will then lead up to the problem of progress, its conditions and limits. The different types of progressive and unprogressive societies will be studied comparatively. Statistical methods will be employed to show the reactions of civilisation that take such forms as insanity, suicide, crime, pauperism, and changes in birth-rates and death-rates. Fellows and graduate students expecting to do advanced work in this course must have, besides their equipment in history and political economy, a general knowledge of the history of philosophy, and some acquaintance with the literature of modern biology and empirical psychology. A reading knowledge of French and German is requisite.

Seminary in Sociology.

The seminary work for 1893–94 is a study of the descriptive sociology of Pennsylvania. Each student makes an original investigation, based largely upon statistics found in the census reports, and in the different State reports, and presents the results in a paper which is followed by discussion and criticism. The special subjects for investigation are the composition and density of the population of Pennsylvania, the distribution of the population according to the topographical features of the State, the statistics of immigration, the distribution of the population according to wealth and industries, the statistics of education and illiteracy, pauperism, insanity, and crime.

Philosophy.

The instruction in logic, history of philosophy and psychology is under the direction of Dr. Dickinson Sergeant Miller, Associate in Philosophy.

The instruction in ethics is under the direction of Dr. James E. Rhoads, President of the College.

The instruction in biblical history is under the direction of Dr. George A. Barton, Associate in Biblical Literature and Semitic Languages.

A course in philosophy and ethics, five hours weekly throughout one year, is required of all candidates for a degree, and is educational rather than technical in its aim. In this course President Rhoads lectures twice weekly throughout the first semester, on Christian ethics; and Dr. Barton lectures twice weekly throughout the second semester, on the Bible and biblical study. The course in logic, history of philosophy, and psychology, three hours weekly throughout the year, is intended to assist the students in co-ordinating the knowledge gained in other courses of study, in grasping the conceptions and principles on which all science rests, and in acquiring a sufficient acquaintance with the method and vocabulary of speculative thought to read philosophic books intelligently.

Logic, Psychology, and History of Philosophy, Dr. Miller. ***Required Course.***

Three times weekly throughout the year.

The text-books are Jevons' *Elementary Lessons in Logic*, James' *Psychology, Briefer Course*, and Royce's *Spirit of Modern Philosophy*. The class-hours will be occupied with supplementary and critical lectures and discussions. Written questions are occasionally given the students during the early part of the hour. In connection with the psychology there are demonstrations of some of the pertinent anatomical and psycho-physical facts. In the last part of the course the text-book on the history of philosophy is read outside the class, and the lecture-hour is spent in giving an insight into the issues at stake in philosophic problems, and in developing reflective and critical ability, such as is indispensable to a genuine intellectual culture.

Lectures on Christian Ethics, President Rhoads.

Twice weekly during the first semester.

In the first part of the course the lectures will treat of the theory of ethics, including an examination of the elements of man's personality as a moral being. The works of Porter, Calderwood, Janet, Martineau and others are referred to, and portions assigned to be read by the class. The applications of moral principles to duty are next considered, especially in the light of Christian ethics. Wayland, Dymond, Dörner and other writers that have treated particularly of duties, are used as books of reference. In the latter part of the course a brief review is given of the chief ethical systems, including some of the most recent.

Lectures on the Origin and Contents of the Books of the Bible, Dr. Barton.

Twice weekly during the second semester.

This course is similar in character to the Graduate Course in Biblical Literature, but the treatment of the subject is necessarily less exhaustive.

Major Course. In addition to the required course in philosophy a Major Course in philosophy is offered, which presupposes as much information as is contained in the required course, and may be elected as a Group in combination with the Major Course in Greek, political science, mathematics or physics. The first and second year courses in philosophy are given alternately, and either year may be elected by the student who has finished the required work.

FIRST YEAR.

(*Minor Course, given in* 1894-95, *and again in* 1896-97.)

Psychology, Dr. Miller. *Three times weekly throughout the year.*

With the aid of a comprehensive text book (probably either James' *Principles of Psychology*, or the *General Psychology* of Ladd) all the main departments of the science will be treated of in the course of the year by lectures, illustrative demonstrations, reports of instructive abnormal cases, and discussion.

British Philosophy of the 17th and 18th Centuries (Hobbes, Locke, Berkeley, and Hume), Dr. Miller. *Twice weekly throughout the year.*

The design of this course is to acquaint the student with the classic masterpieces of British philosophy, to arrive at an exact apprehension of the authors' meaning; to mark in detail the gradual advance of thought; to compare historic theories with the views now current, and to examine into the truth, or (if obviously false) into the suggestive value of the several writers' opinions.

SECOND YEAR.

(*Minor Course, given in* 1895-96, *and again in* 1897-98.)

1st Semester.

Problems in the Philosophy of Nature, Dr. Miller. *Twice weekly.*

In this course certain fundamental questions as to the constitution and course of nature, the meaning of natural law, the principle of cause and effect, the uniformity of nature, and the teleological and the mechanical points of view will be systematically studied. One or more text-books will be employed: but the chief weight will be laid upon the controversial articles and treatises to which the student will be constantly referred, illustrative of the different positions taken and of the range of modern philosophic debate. The class-work will consist of lectures and discussion guided by the Instructor.

Continental Philosophy the of 17th Century (Descartes, Malebranche, Spinoza, Leibnitz), Dr. Miller. *Three times weekly.*

This is an historical course similar in character to that on British Philosophy. Descartes's *Discours, Méditations*, and (in part) *Principia*, Malebranche's *De la Recherche de la Vérité* (in part), Spinoza's *De Intellectus Emendatione* and *Ethica*, Leibnitz's *Monadologie*, and (in part) *Theodicée*, will be read.

2nd Semester.

Esthetics, Dr. Miller. *Twice weekly.*

A course on the psychology and philosophy of our esthetic pleasures and displeasures, with especial reference to literature and the fine arts, and to the physiological theory of pleasure and pain. Class-work will be conducted as in the first semester. Portions of the esthetic writings of Burke, Ruskin, Vischer, Fechner, Bosanquet and Knight will be taken up. Expository lectures will be given on the esthetic doctrines of Kant and some of his successors in the Transcendental school.

Continental Philosophy (continued), Dr. Miller. *Three times weekly.*

Group: Philosophy with Greek *or* with Political Science, *or* with Mathematics, *or* with Physics.

GRADUATE COURSES.

Graduate Course.

Recent Philosophic Theories, Dr. Miller. *Twice weekly throughout the year.*

The aim of the course is to secure the comprehensive and logical treatment of the problems themselves, together with the formation, on the student's part, of just and exact habits of criticism. The problems, and not the authors studied, determine the order and unity of the course. Treatises, monographs, and articles are read so far as they bear upon the subject for the time under consideration, and thus the student gains a comparative and to some extent, judicial knowledge of a variety of philosophic writers and points of view. This course will be given in 1895-96.

The Philosophy of Spinoza. *Once (two hours) weekly throughout the year.*

The essay *On the Improvement of the Understanding*, the *Ethics*, and portions of the *Theologico-Political Tractate* will be carefully read and interpreted. The extremely suggestive views, both metaphysical and moral, of this typical thinker will be examined in detail and in their broadest bearing. A comparison with Hume, the spokesman of a widely contrasted intellectual tendency and temper, will serve to throw into relief the characteristic features of Spinoza's thought. Much of the critical and analytic literature, English, German, and French, relating to Spinoza will be reported upon and discussed. This course will be given in 1894-95.

Mathematics.

The instruction in mathematics is under the direction of Dr. Charlotte Angas Scott, Professor of Mathematics, and Mr. James Harkness, Associate Professor of Mathematics.

The Major Course is a course in pure mathematics, and in the two years the students will be able to gain a fair knowledge of the principal pure mathematical subjects. It is not proposed to include the applications of mathematics to physics, though courses in dynamics may be arranged from time to time when wanted. The points of contact of mathematics with other branches of mental and physical science will be indicated as far as possible throughout the course, special attention being paid to the nature of mathematical reasoning, and to the true relation and mutual dependence of mathematics and physics, in order that students may obtain just ideas of the scope and province of mathematics. The course of lectures on the history of mathematics in the second year is intended to give an outline of the development of the subject from its beginning to 1700 A.D.

Preparatory Course. A Preparatory Course of five hours weekly throughout one semester is designed for students entering the college without a sufficient knowledge of those mathematical subjects that are optional in the entrance examination; the lectures will be adapted each year to the requirements of students taking the course; they will, generally speaking, include solid geometry and trigonometry.

Major Course.

FIRST YEAR.

(*Minor Course.*)

1*st Semester.*

Analytical Conics, Dr. Scott. *Five times weekly.*

2*nd Semester.*

First Half.—Algebra, advanced Trigonometry and Theory of Equations, Mr. Harkness. *Five times weekly.*

Second Half—Elementary Differential and Integral Calculus, Mr. Harkness. *Five times weekly.*

SECOND YEAR.

(*Major Course.*)

1*st Semester.*

Differential and Integral Calculus, Differential Equations, Mr. Harkness. *Five times weekly.*

2*nd Semester.*

Curve Tracing, Analytical Geometry of Three Dimensions, Dr. Scott. *Four times weekly.*

History of Mathematics (about sixteen lectures), Dr. Scott. *Once weekly.*

Group: Mathematics with Physics; *or* Mathematics with Greek or Latin; *or* Mathematics with Philosophy.

Post-Major Courses.

Post-Major Courses.

The Post-Major Courses in mathematics are designed to bridge over the interval between the ordinary undergraduate studies and advanced work. They deal, therefore, with the subjects of the major course, carried to higher developments and treated by higher methods. As the order of mathematical studies differs in different colleges, graduate students will frequently find it advisable to devote a part of their time to these courses. Regular written work is expected from all mathematical students, and a reading knowledge of French and German is presupposed.

The Post-Major Courses in any one year amount to four or five hours weekly. The courses given are the following, with occasional modifications:—

I. (*a*). Lectures Introductory to Modern Analytical Geometry, in connection with Salmon's *Conic Sections*, Dr. Scott.

or, I. (*b.*) Lectures on Modern Geometry, in connection with Chasles' *Géométrie Supérieure*, and with Reye's *Geometrie der Lage*, Dr. Scott.

or, I. (*c*). Lectures on Modern Higher Algebra, in connection with Salmon's *Modern Higher Algebra*, Dr. Scott.

II. (*a*) Lectures Introductory to Modern Algebra and the Theory of Functions, in connection with Chrystal's Algebra, Vol. II., Mr. Harkness.

or II. (*b.*) Lectures on Differential Equations, with an Introduction to the Theory of Functions, in connection with Forsyth's *Differential Equations*, and Jordan's *Cours d'Analyse*, Mr. Harkness.

or II. (*c.*) Lectures on Differential Equations (elementary), in connection with Forsyth's *Differential Equations*, Mr. Harkness.

The courses offered in the present year (1893–94) are:—

I. (*c.*) *Twice weekly* throughout the year, Dr. Scott.

II. (*c.*) *Twice weekly* throughout the year, Mr. Harkness.

The following courses will be offered in the year 1894–95:

I. (*a*) Dr. Scott.

II. (*b.*) *Three times weekly* through the 1st semester; *twice weekly* through the 2nd semester, Mr. Harkness.

Graduate Courses.

Graduate Courses.

The Graduate Courses consist of lectures and seminary work, supplemented by private reading under the direction of the instructors, the courses being arranged each year with reference to the wishes and degree of preparation of the students concerned. The Graduate Courses will be in part open, by special permission of the instructors, as a Free Elective to students that have completed the Major Course, and taken one year of Post-Major work. For the year 1893–94 there are two courses offered:—

Seminary work, Dr. Scott. *Once weekly, or oftener if required, throughout the year.*

This course consists of individual discussion and investigation of topics in advanced Analytical Geometry.

Differential Equations (advanced), Mr. Harkness.

Three times weekly throughout the year.

This course is a modification of II. (*b*), and is given as a continuation of a previous course on the Theory of Functions. Its object is to pave the way to a study of recent developments in Differential Equations. The text-books are Forsyth's *Differential Equations*, Jordan's *Cours d'Analyse*, t. iii., and Craig's *Treatise on Linear Differential Equations with Uniform Coefficients.*

For the year 1894–95 the following graduate courses are offered:

Higher Plane Curves, Dr. Scott. *Twice weekly throughout the year.*

In this course a knowledge of the Theory of Cubic Curves will be pre-supposed; this course will be continuous with the course in Higher Plane Curves given in 1892–93.

Theory of Groups, Mr. Harkness. *Three times weekly throughout the year.*

Students intending to take this course should have a general acquaintance with the main processes and results in the Theory of Functions. It is too early to indicate the precise amount of ground that will be covered during the year, but it is probable that during the first semester the lectures will be mainly along the lines of the standard treatises on the subject; Serret's *Cours d'Algèbre Supérieure;* Jordan's *Traité des Substitutions*; Netto's *Substitutionentheorie* (translated by Dr. F. N. Cole); while in the second semester attention will be paid to recent French and German researches on Modular and Automorphic Functions.

While there is, as yet, no separate department of Mathematical Physics, the Instructors in Mathematics and Physics will give all necessary direction and assistance to students whose preparation for the degree of Doctor of Philosophy involves work in this subject.

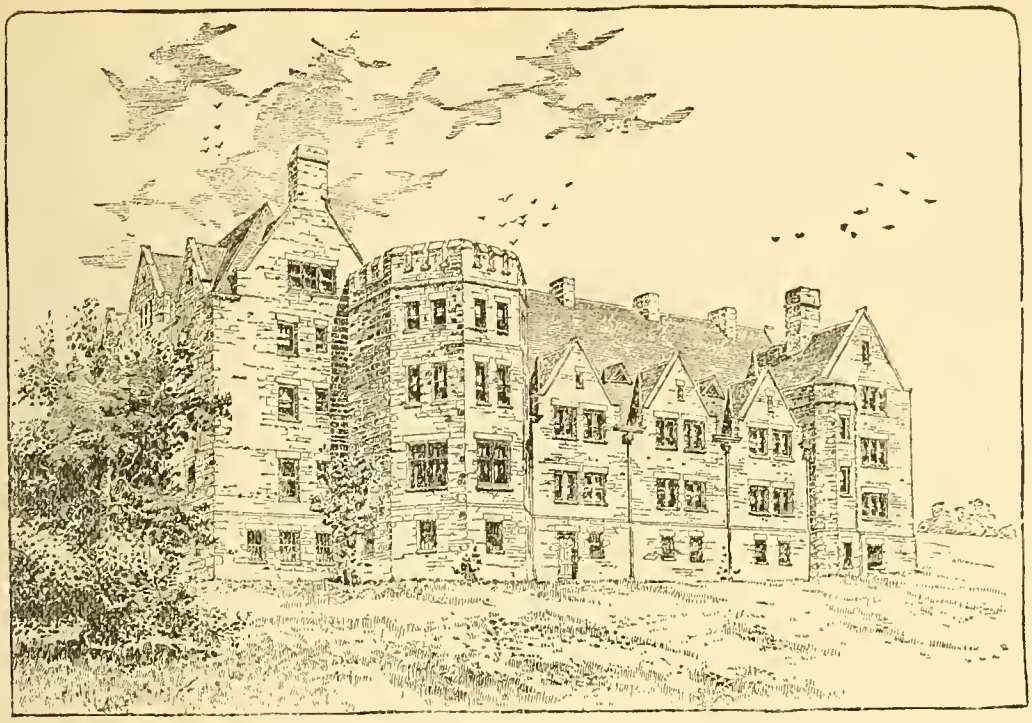
In the current year Mr. Harkness offers in the first semester a two-hour course in dynamics, which serves as an introduction to a course on the theory of wave-motion, given by Mr. Mackenzie three times weekly in the second semester.

Science.

Physics, Chemistry, Biology.

Professors and instructors: Dr. Edward H. Keiser, Dr. Thomas Hunt Morgan, Dr. Joseph W. Warren, Mr. Arthur Stanley Mackenzie, Dr. Edgar Buckingham, Dr. Harriet Randolph, Dr. Elmer P. Kohler.

In January, 1893, the Trustees opened Dalton Hall, a large building, containing ample laboratories, lecture-rooms, research-rooms, special libraries, and professors' rooms for the work of the scientific departments. A plan of the new building accompanies the present program. The chemical, biological, and physical laboratories are open for students throughout the day.



FROM THE NORTH.

RADNOR HALL.

Radnor Hall was the second hall of residence opened, and was completed in 1887. It is built of stone, has its separate kitchen and dining hall, provides accommodation for fifty-seven students and is under the charge of a resident mistress, Mrs. Reginald H. Chase. It contains (*a*) three sets of rooms, comprising each two bed-rooms and a study; (*b*) forty-four single rooms (two of these, numbers 54 and 55, being on the fourth floor); (*c*) numbers 56 and 57, two large fourth floor rooms, each large enough to be occupied by two students, and (*d*) three sets of two rooms, each set to be occupied by one student. The rooms are carpeted and completely furnished, and there is provided for each student a bookcase, a study-table, an arm-chair and a student-lamp. The building is warmed by furnaces and lighted by gas.

The charge for board is $150 a year. The charge for rooms is as follows: rooms (*a*), $150 for each student; for rooms (*b*) and (*c*), $125 a year for each student; and for rooms (*d*) $300. These charges include all expenses of furnishing, service, heating and light, except open fires and washing. No lamps, towels, table napkins, sheets or supplies of any kind need be brought by the student. No part whatever need be taken by the student in the care of her own room. A fixed annual charge ($18 for one dozen pieces a week, and fifty cents a dozen for the washing of plain pieces in excess of this) is made for washing, when students prefer to have their washing done in the college. Students that remain at the college during the winter and spring vacations will be charged seven dollars or eight and a half dollars weekly according to the rooms occupied.

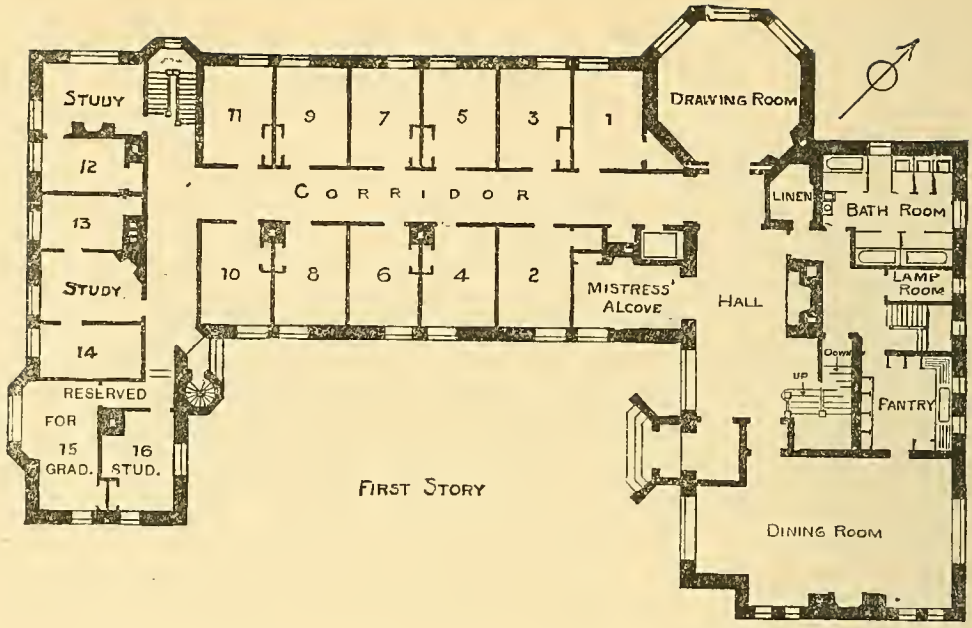
The charges for board and residence do not include the fee for collegiate instruction, which is $100 a year. (See program, page 54.)

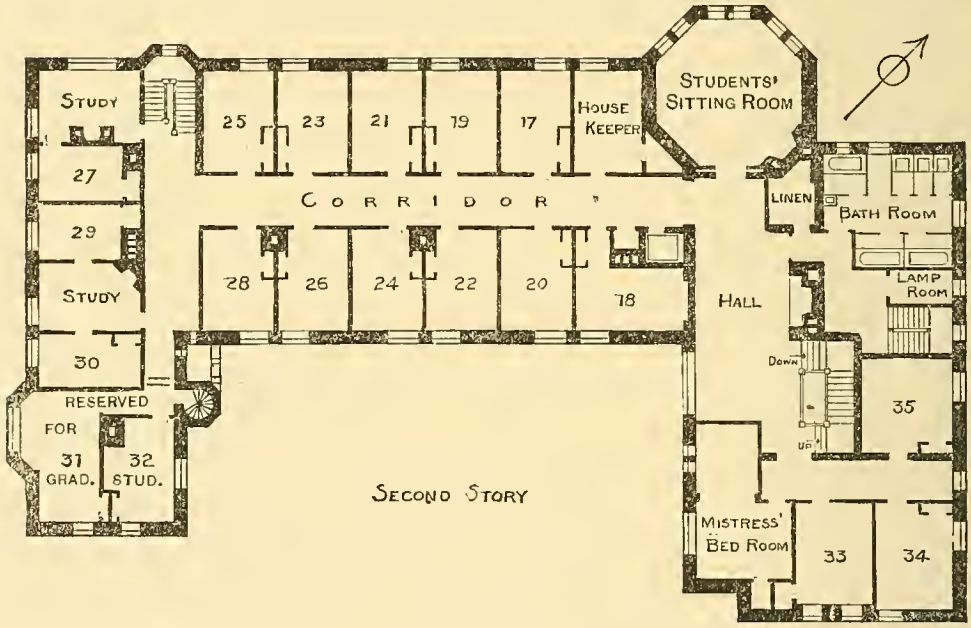
The entire charge for collegiate instruction and for board and residence in Radnor Hall is therefore (rooms *a*) $400; (rooms *b* and *c*) $375, and (rooms *d*) $550 a year. The room rent and the fee for tuition must be paid in advance at the beginning of each academic year; one-half of the charge for board must be paid in advance at the beginning of each semester.

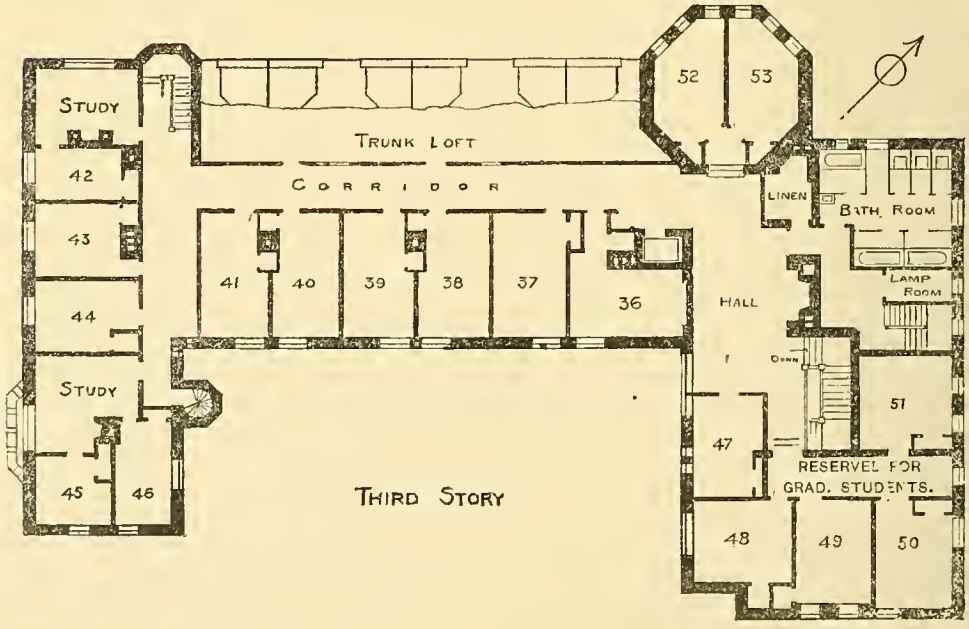
Rooms numbered 15, 16, 31, 32, 48, 49, 50 and 51 are reserved for graduate students, and will not be assigned to undergraduates.

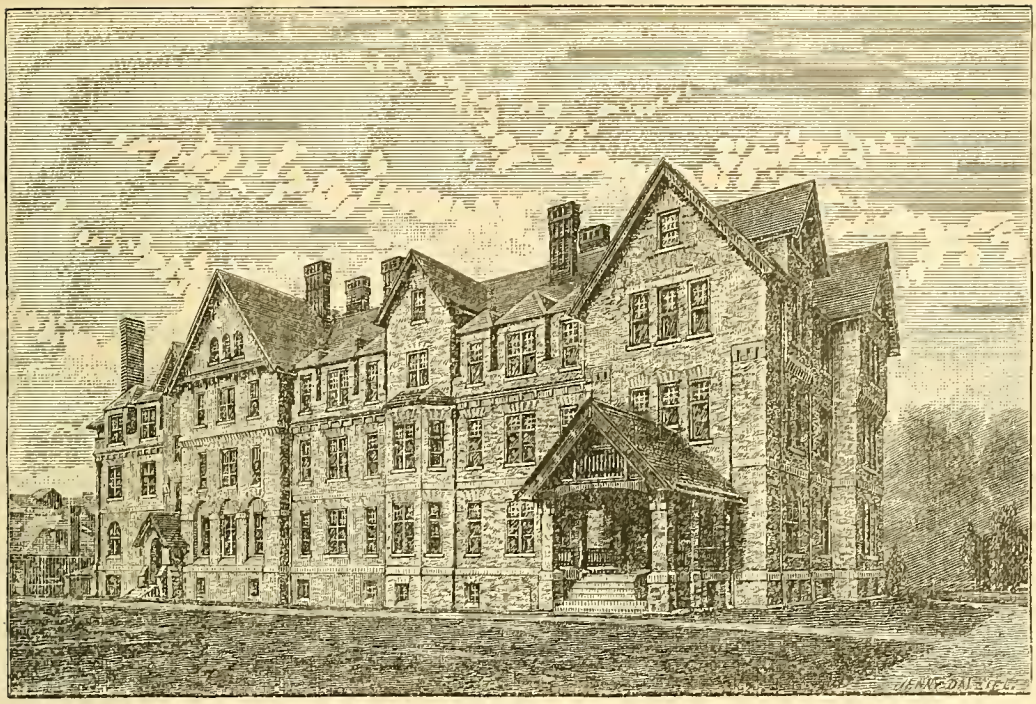
The health of the students is under the charge of Dr. Ida E. Richardson, a practising physician of Philadelphia, who visits the college every week, and can then be consulted by all the students free of charge. No charge is made for sending meals to students that remain in their rooms by the advice of the physician or of the mistress of the hall.

Application for rooms should be made as early as possible. Since the demand for college rooms is very great and every room unnecessarily reserved may prevent some other student from entering college, before a room is assigned a deposit of fifteen dollars is required, which will be deducted from the first college bill. A deposit of fifteen dollars must also be made by each student in residence in order to insure the tenure of her room for the following academic year. This sum will be forfeited if no formal notice of withdrawal is filed at the Secretary's office on or before May first of the current year. All students, or candidates for matriculation, reserving rooms who do not inform the Secretary of their change of intention before September first of the academic year for which the room is reserved, will be held responsible for the rent of the room for the entire academic year. An exception to this rule is made in the case of those candidates only who fail to pass the autumn examinations for matriculation.


STUDY
11
9
7
5
3
1
DRAWING ROOM
12
CORRIDOR
LINEN
BATH ROOM
13
10
8
6
4
2
MISTRESS' ALCOVE
HALL
LAMP ROOM
STUDY
14
Down
UP
PANTRY
RESERVED FOR 15 GRAD. 16 STUD.
FIRST STORY
DINING ROOM


STUDY
25
23
21
19
17
HOUSE KEEPER
STUDENTS' SITTING ROOM
27
CORRIDOR
LINEN
BATH ROOM
29
28
26
24
22
20
18
HALL
LAMP ROOM
STUDY
Down
30
35
RESERVED FOR 31 GRAD. 32 STUD.
UP
SECOND STORY
MISTRESS' BED ROOM
33
34


52
53
STUDY
TRUNK LOFT
42
CORRIDOR
LINEN
BATH ROOM
43
41
40
39
38
37
36
HALL
LAMP ROOM
44
Down
STUDY
51
47
RESERVED FOR GRAD. STUDENTS.
45
46
THIRD STORY
48
49
50



FROM THE WEST.

MERION HALL.

Merion Hall was the first hall of residence opened, and was completed in 1885; it is built of Fairmount stone, has its separate kitchen and dining hall, provides accommodation for about fifty students, and is under the charge of a resident mistress, Miss Sophia Kirk. It contains eighteen sets of rooms, comprising each two bed-rooms and a study; twelve ordinary single bed-rooms; three rooms of exceptional size, and one large fourth floor room, number 73, large enough to be occupied by two students. The rooms are carpeted and completely furnished, and there is provided for each student a bookcase, a study-table, an arm-chair and a student-lamp. In each study and in eight of the single rooms there is an open fire-place, but the rooms will be sufficiently heated by steam. The building is lighted by gas, and warmed by currents of air passing over steam-heated pipes.

The charge for board is $150 a year. The charge for rooms is as follows: For sets of three rooms, $300 a year, or $150 for each student; for rooms 66, 38 and 67 (fourth floor) $125 a year; for room 65, $270. and for room 74, $225 a year; and for rooms 71 and 73, $225, or, if occupied by two students, $125 for each student. These charges include all expenses of furnishing, service, heating, and light, except open fires and washing. No lamps, towels, table napkins, sheets or supplies of any kind need be brought by the student. No part whatever need be taken by the student in the care of her own room. A fixed annual charge ($18 for one dozen pieces a week, and fifty cents a dozen for the washing of plain pieces in excess of this) is made for washing, when students prefer to have their washing done in the college. Students that remain at the college during the winter and spring vacations will be charged seven dollars or eight and a half dollars weekly according to the rooms occupied.

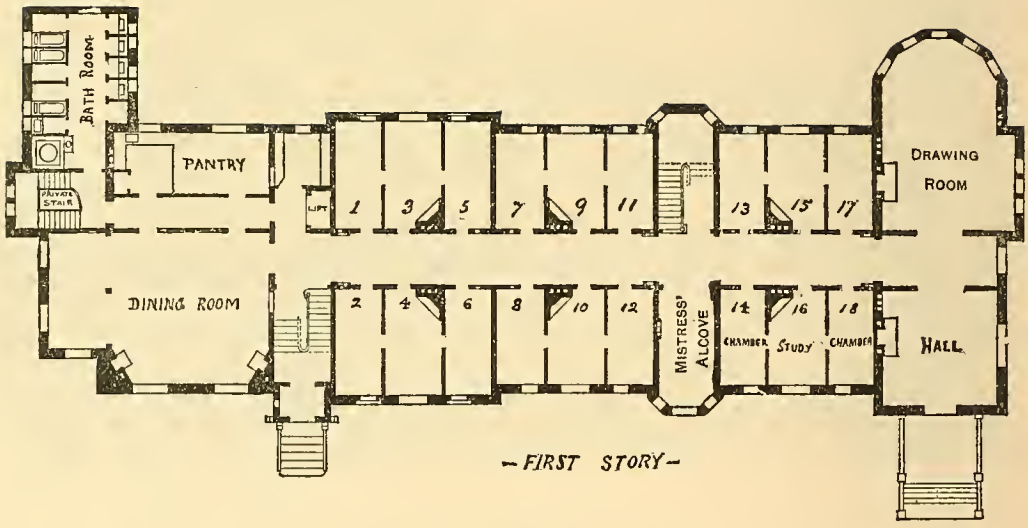
The charges for board and residence do not include the fee for collegiate instruction, which is $100 a year. (See program, page 54.)

The entire charge for collegiate instruction and for board and residence in Merion Hall is therefore $400 a year, except in rooms 38, 65, 66, 67, 71, 73, 74, 75. The room rent and the fee for tuition must be paid in advance at the beginning of each academic year; one-half the charge for board must be paid in advance at the beginning of each semester.

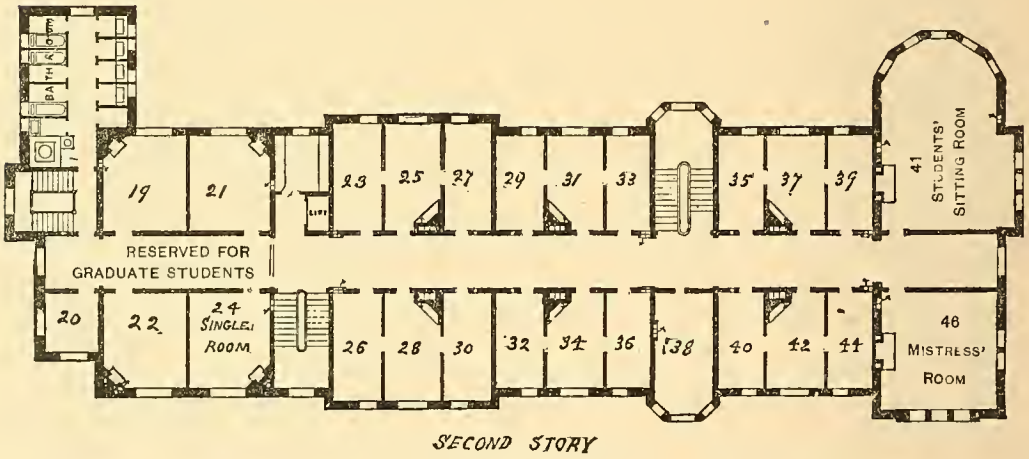
All single rooms in Merion Hall, except numbers 74 and 38, are reserved for graduate students, and will not be assigned to undergraduates.

The health of the students is under the charge of Dr. Ida E. Richardson, a practising physician of Philadelphia, who visits the college every week, and can then be consulted by all the students free of charge. No charge is made for sending meals to students that remain in their rooms by the advice of the physician or of the mistress of the hall.

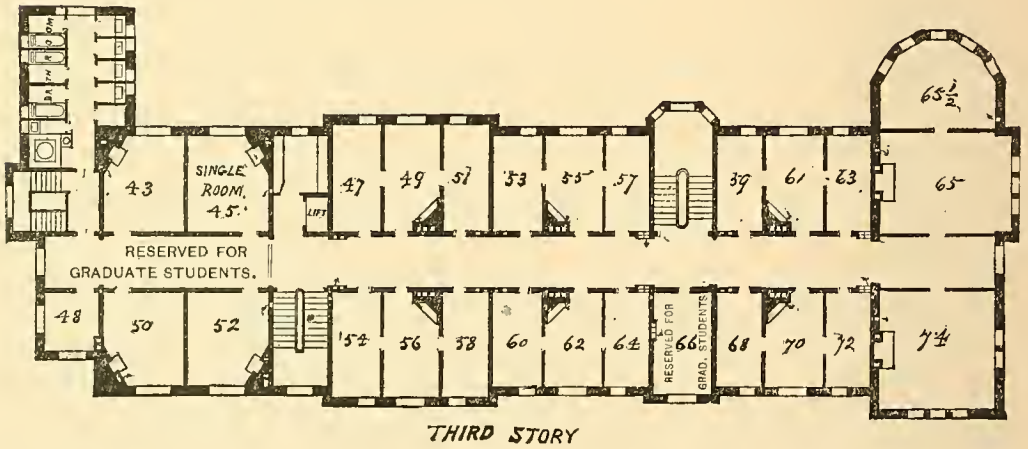
Application for rooms should be made as early as possible. Since the demand for college rooms is very great and every room unnecessarily reserved may prevent some other student from entering college, before a room is assigned a deposit of fifteen dollars is required, which will be deducted from the first college bill. A deposit of fifteen dollars must also be made by each student in residence in order to secure the tenure of her room for the following academic year. This sum will be forfeited if no formal notice of withdrawal is filed at the Secretary's office on or before May first of the current year. All students, or candidates for matriculation, reserving rooms, who do not inform the Secretary of their change of intention before September first of the academic year for which the room is reserved, will be held responsible for the rent of the room for the entire academic year. An exception to this rule is made in the case of those candidates only who fail to pass the autumn examinations for matriculation.



— FIRST STORY —



SECOND STORY



THIRD STORY

PEMBROKE HALL WEST.

Pembroke Hall is, in order of opening, the fourth hall of residence of Bryn Mawr College, and like the others is built of grey stone, and has its separate kitchen and dining hall. The west wing was opened in February, 1894; the east wing will be completed in the autumn of 1894. Pembroke Hall West, the completed wing, provides accommodations for sixty-five students, and is under the charge of a resident mistress, Miss Alice Rawle Newbold. It contains five sets of two rooms, each set to be occupied by one student; thirteen sets of rooms, comprising each two bed-rooms and a study; and thirty-four single rooms of different sizes. The rooms are carpeted and completely furnished, and there is provided for each student a book-case, a study-table, an arm-chair and a student-lamp. In each study and in each of the larger single rooms there is an open fire-place, but the rooms will be sufficiently heated by steam. The building is lighted by gas, and warmed by currents of air passing over steam-heated pipes, and the system of ventilation is carefully planned.

The charge for board is $150 a year. The charge for rooms is as follows: for each of the sets of two rooms numbered 3, 15, 41, 44, 53, $300 a year; for half of one of the suites of three rooms numbered 22–26, 62–66, $350 a year; for half of any one of the suites of three rooms numbered 33–35, 34–38, and 73–74, $250 a year; for half of any one of the suites of three rooms numbered 8–12, 9–13, 16–20, 25–29, 47–51, 48–52, 56–60, 63–67, $225 a year; for rooms 40, 69, 85 and 76, $175 a year; for rooms 19, 28, 30, 32, 57, 71, 72, 70, 68, 77, 79, 80, 81, $150 a year; for rooms, 5, 6, 7, 14, 21, 23, 31, 43, 45, 46, 54, 59, 61, 78, 82, 83, 84, $125 a year. These charges include all expenses of furnishing, service, heating, and light, except open fires and washing. No lamps, towels, table napkins, sheets or supplies of any kind need be brought by the student. No part whatever need be taken by the student in the care of her own room. A fixed annual charge ($18 for one dozen pieces a week and fifty cents a dozen for the washing of plain pieces in excess of this) is made for washing when students prefer to have their washing done in the college. Students that remain in the college during the winter and spring vacations will be charged seven dollars or eight dollars and a half weekly according to the rooms occupied.

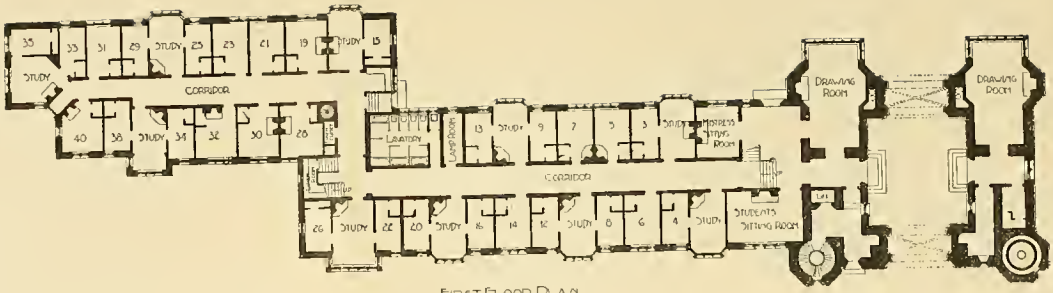
The charges for room and board do not include the fee for collegiate instruction, which is $100 a year. (See program, page 54).

The entire charge for board, residence in Pembroke Hall West, and tuition, is therefore $600 (in two suites), $550 (in five suites), $500 (in three suites), $475 (in eight suites), $425 (in four rooms), $400 (in thirteen rooms), $375 (in seventeen rooms). The room rent and the fee for tuition must be paid in advance at the beginning of each academic year. One half the charge for board must be paid in advance at the beginning of each semester.

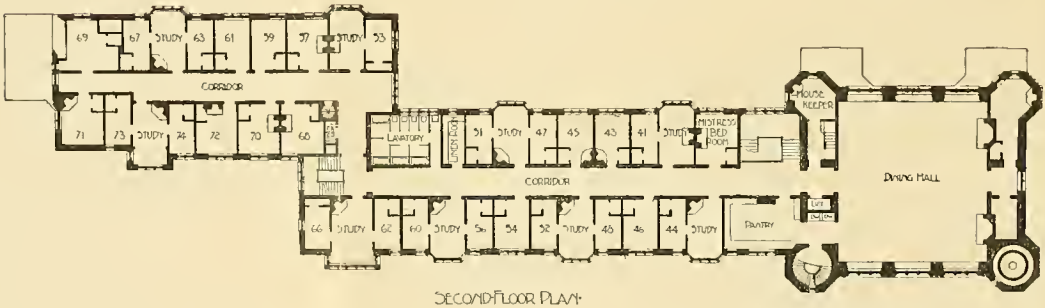
The third floor of Pembroke Hall West is reserved for graduate students, and no rooms in this portion of the hall will be assigned to undergraduates.

The health of students is under the charge of Dr. Ida E. Richardson, a practising physician of Philadelphia, who visits the college every week, and can then be consulted by all the students free of charge. No charge is made for sending meals to students that remain in their rooms by the advice of the physician or of the mistress of the hall.

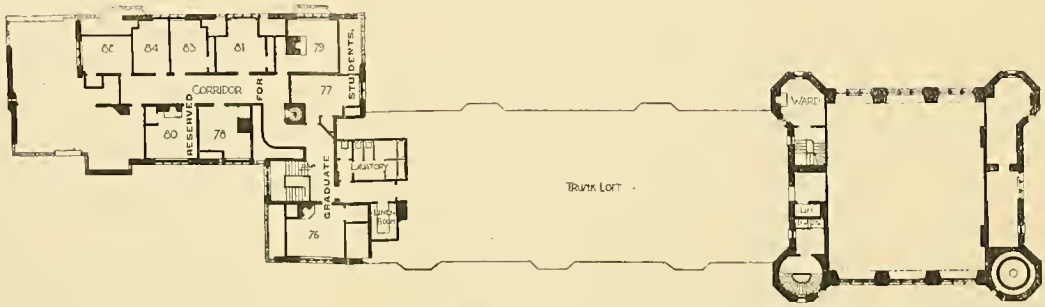
Application for rooms should be made as early as possible. Since the demand for college rooms is very great and every room unnecessarily reserved may prevent some other student from entering college, before a room is assigned a deposit of fifteen dollars is required, which will be deducted from the first college bill. A deposit of fifteen dollars must also be made by each student in residence in order to insure the tenure of her room for the following academic year. This sum will be forfeited if no formal notice of withdrawal is filed at the Secretary's office on or before May first of the current year. All students, or candidates for matriculation, reserving rooms, who do not inform the Secretary of their change of intention before September first of the academic year for which the room is reserved, will be held responsible for the rent of the room for the entire academic year. An exception to this rule is made in the case of those candidates only who fail to pass the autumn examinations for matriculation.



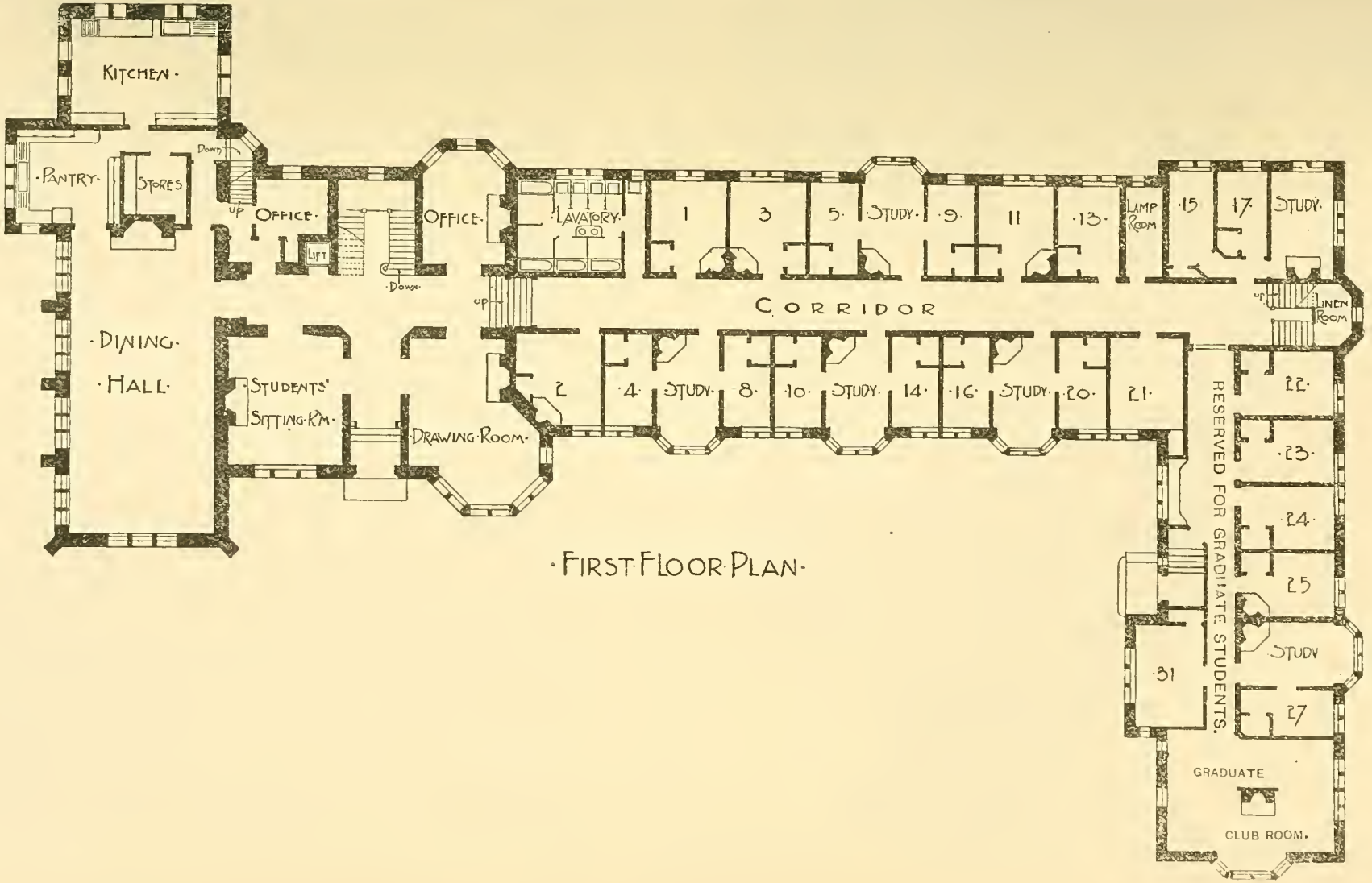
FIRST FLOOR PLAN



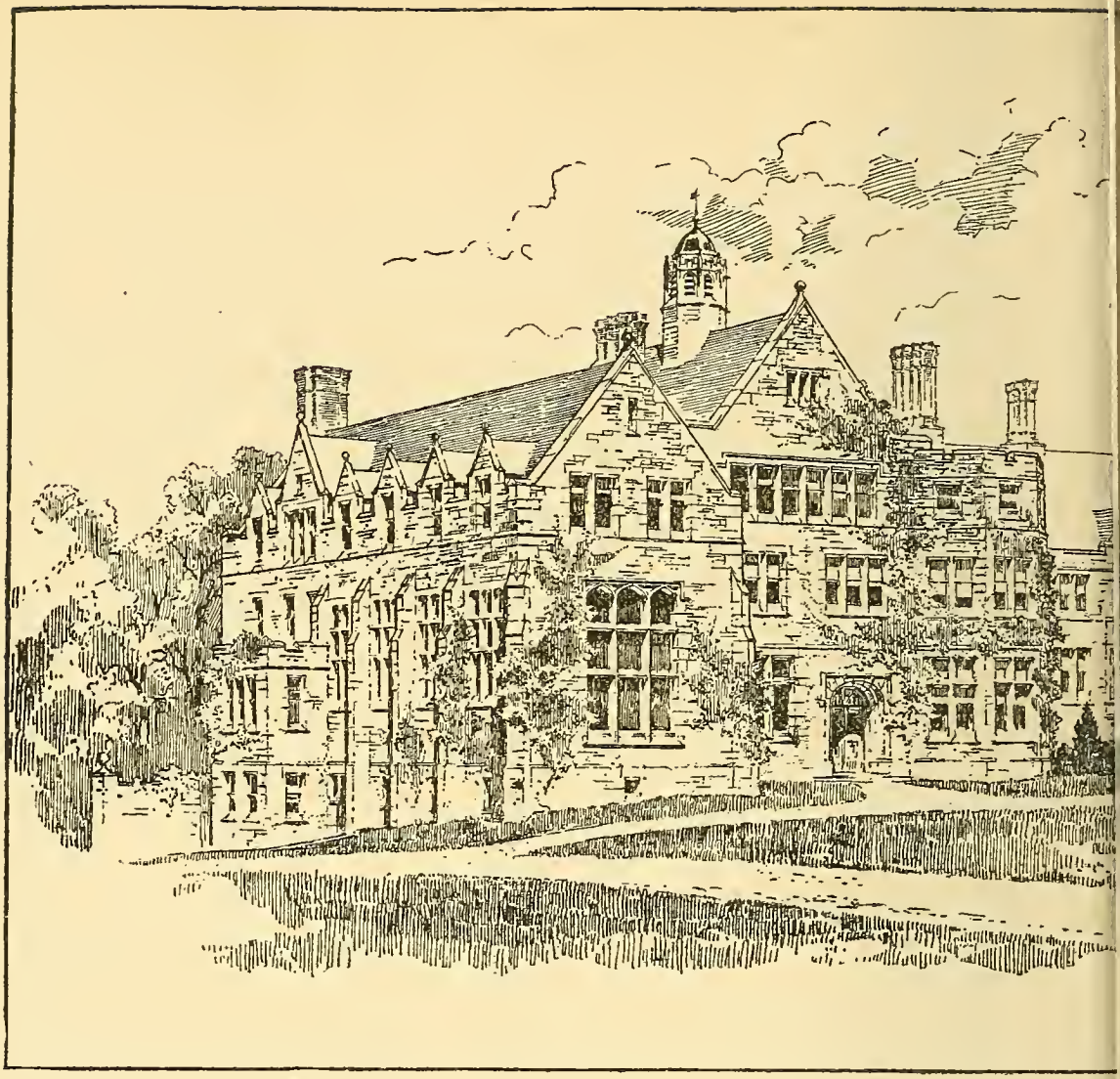
SECOND FLOOR PLAN



THIRD FLOOR PLAN



FIRST FLOOR PLAN.



FRO

DENI

Denbigh Hall was the third hall of residence opened, and was completed in 1891. It i and is under the charge of a resident mistress, Mrs. Agnes M. Derkhiem-Irwin. It conta each two bed-rooms and a study; thirty-four single rooms of different sizes, and one very l pletely furnished, and there is provided for each student a bookcase, a study-table, an arm-c place, but the rooms will be sufficiently heated by steam. The building is lighted by gas and w

The charge for board is $150 a year. The charge for rooms is as follows: For any one of 37 and part of 38), and for half of any one of the suites of three rooms numbered 15–17, 34– sets of three rooms numbered 4–8, 5–9, 10–14, 16–20, $200 a year; for room 39 and for room 7 74 (on third floor over house-keeper's room and staircase), for one half of room 77 (on third fl numbered 43–47, 48–50, 49–53, 55–59, $150 a year; for rooms 15, 22, 23, 24, 25, 54, 62, 63, 64, 65 service, heating, and light, except open fires and washing. No lamps, towels, table napk by the student in the care of her own room. A fixed annual charge ($18 for one dozen piece when students prefer to have their washing done in the college. Students that remain at t half weekly according to the rooms occupied.

The charges for rooms and board do not include the fee for collegiate instruction, which i

The entire charge for board, residence in Denbigh Hall, and tuition is therefore $550 (eighteen rooms and four suites), $425 (in two rooms), $375 (in eleven rooms). The room rent charge for board must be paid in advance at the beginning of each semester.

The rooms in the west wing are reserved for graduate students and will not be assigned t

The health of the students is under the charge of Dr. Ida E. Richardson, a practising phy free of charge. No charge is made for sending meals to students that remain in their rooms

Application for rooms should be made as early as possible. Since the demand for colle entering college, before a room is assigned a deposit of fifteen dollars is required, which w student in residence in order to insure the tenure of her room for the following academic ye or before May first of the current year. All students, or candidates for matriculation, res the academic year for which the room is reserved, will be held responsible for the rent of the only who fail to pass the autumn examinations for matriculation.



H-WEST.

HALL.

stone, has its separate kitchen and dining hall, provides accommodation for sixty-four students, sets of two rooms, each set to be occupied by one student; thirteen sets of rooms comprising which may be occupied either by one or by two students. The rooms are carpeted and com- a student-lamp. In each study and in each of the larger single rooms there is an open fire- currents of air passing over steam-heated pipes; the system of ventilation is carefully planned. of two rooms numbered 27, 67, 57, 59, $300 a year; for room 40, $250 a year; for room 73 (over 68–70, $225 a year; for rooms 37 and 78 (over mistress' bedroom), and for half of any one of the 3), $175 a year; for rooms 1, 2, 5, 11, 21, 31, 32, 33, 38, 41, 42, 44, 52, 61, 71, for rooms 72 and large enough to be occupied by two students), and for half of any one of the sets of three rooms room 76 (on third floor), $125 a year. These charges include all expenses of furnishing, s or supplies of any kind need be brought by the student. No part whatever need be taken and fifty cents a dozen for the washing of plain pieces in excess of this) is made for washing e during the winter and spring vacations will be charged seven dollars or eight dollars and a

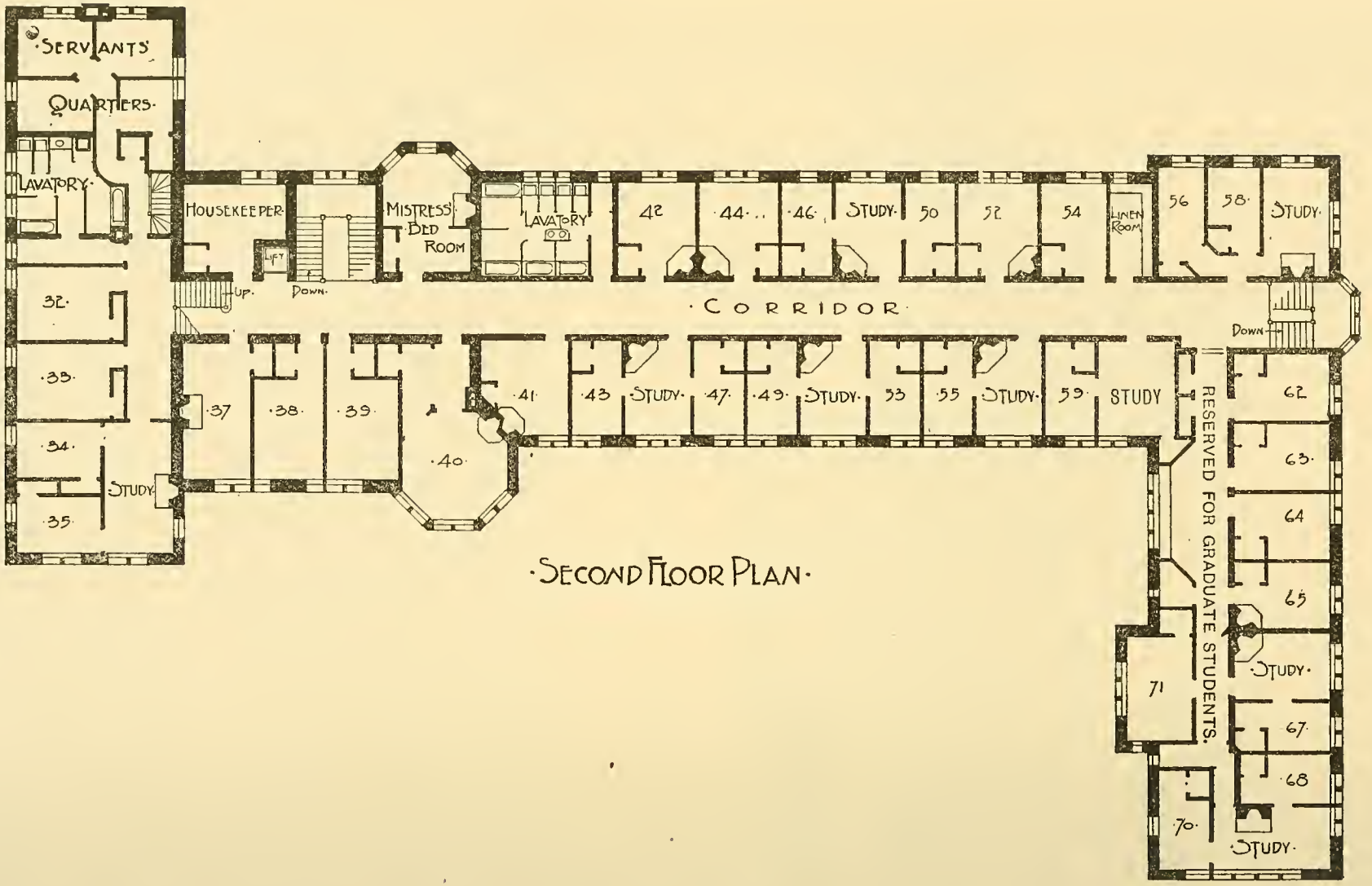
ear. (See program, page 54).

uites), $500 (in one room), $475 (in four suites and one room), $450 (in six suites), $400 (in fee for tuition must be paid in advance at the beginning of each academic year. One-half the

raduates.

Philadelphia, who visits the college every week, and can then be consulted by all the students dvice of the physician or of the mistress of the hall.

is very great and every room unnecessarily reserved may prevent some other student from ducted from the first college bill. A deposit of fifteen dollars must also be made by each sum will be forfeited if no formal notice of withdrawal is filed at the Secretary's office on ooms, who do not inform the Secretary of their change of intention before September first of r the entire academic year. An exception to this rule is made in the case of those candidates



SECOND FLOOR PLAN

The attention of the graduates of medical colleges and of undergraduate and graduate students intending to take the degree of Doctor of Medicine is called to the facilities offered by the laboratories, and to the recent resolutions of the Trustees of the Johns Hopkins University in regard to the admission of students to the Medical School of that University, which opened in the autumn of 1893, and to which women are admitted on the same terms as men.*

The value of a practical knowledge of biology and chemistry as preliminary or accessory to the professional study of medicine is generally recognised. Through the courtesy of the Woman's Medical College of Pennsylvania, and the Woman's Medical College of the New York Infirmary, allowance will be made in their professional courses for work carried on at Bryn Mawr in the scientific laboratories. Students of Bryn Mawr College that have completed major courses in chemistry and biology will be released from the first year's, or primary, examination in these colleges, and from laboratory practice in chemistry and biology. The courses of Bryn Mawr College in chemistry, biology, and physics correspond to those of the Johns Hopkins University, and it will be easy for the student entering college without offering the advanced requirements for matriculation to complete in three years a course corresponding to the entire Preliminary Medical Course of the Johns Hopkins University, including the requirements for matriculation as pre-

* RESOLUTIONS ADOPTED BY THE BOARD OF TRUSTEES OF THE JOHNS HOPKINS UNIVERSITY, ON FEB. 6TH, 1893.

"A course of four years' instruction will be provided leading to the degree of Doctor of Medicine.

To this course there will be admitted as Candidates for the degree:

1. Those who have satisfactorily completed the Chemical-Biological Course which leads to the A.B. degree in this University.

2. Graduates of approved Colleges or Scientific Schools who can furnish evidence: (a) That they have a good reading knowledge of French and German; (*b*) That they have such knowledge of Physics, Chemistry, and Biology as is imparted by the regular Minor Courses † given in these subjects in this University.

3. Those who give evidence by examination that they possess the general education implied by a degree in arts or in science from an approved college or scientific school and the knowledge of French, German, Physics, Chemistry, and Biology already indicated.

† By a Minor Course is understood one that requires one year for its completion. In the languages, the course involves five class-room exercises a week; in Physics, five class-room exercises and three hours a week in the laboratory; and in Chemistry and Biology, five class-room exercises and five hours a week in the laboratory in each subject."

scribed by the University. Every effort will be made to enable students of medicine to complete the studies necessary to their purposes in the shortest possible time.

Physics.

The instruction in physics is under the direction of Mr. Arthur Stanley Mackenzie, Associate in Physics, and Dr. Edgar Buckingham, Associate in Physics.

The course extends through two years, but in the first year an elementary treatment of the whole subject is given, making a course complete in itself.

No knowledge of physics is presupposed, but students must have, before entering the class, a knowledge of the elements of trigonometry.

In the second year use is made of differential and integral calculus. Special arrangements will be made by the instructors in the mathematical department to meet the case of students wishing to take this second year's course in physics without electing mathematics as a group.

Major Course.

FIRST YEAR.

(*Minor Course.*)

1st Semester.

Laws and Properties of Matter, Mr. Mackenzie. Heat, Dr. Buckingham. Mechanics, Mr. Mackenzie.	*Five times weekly.*
Laboratory work.	*Four hours weekly.*

2nd Semester.

Electricity and Magnetism, Mr. Mackenzie. Light and Sound, Dr. Buckingham.	*Five times weekly.*
Laboratory work.	*Four hours weekly.*

In the main the amount of work given is that of Ganot's *Physics* or Deschanel's *Natural Philosophy*, and frequent references are made to these manuals, but the course is chiefly given by lectures. Students are expected to use, in connection with the lectures, text-books on the special part of the subject under discussion: in the first semester Glazebrook's *Laws and Properties of Matter*, R. W. Stewart's *Text-Book of Heat* and Lodge's *Mechanics:* in the second semester S. P. Thompson's *Lessons in Electricity and Magnetism* and R. W. Stewart's *Text-Book of Light.*

In the laboratory, the students are first instructed in the methods of accurate measurement of the simple quantities, length, time and weight, and in the laws governing the equilibrium and motion of bodies; later, they make determinations of electrical quantities, potential, resistance, capacity, etc.; and problems in heat, sound, and light are studied and discussed.

The object of the work is to familiarise the students with the instruments and methods used in physical measurements, with special reference to the quantitative laws upon which the science is based. The laboratory is equipped with this object in view, and the apparatus is all of the most modern design.

SECOND YEAR.

(Major Course.)

1st Semester.

Theory of Heat, Mr. Mackenzie.
Problems in Mechanics, Dr. Buckingham. } *Five times weekly.*

Laboratory work. *Five hours weekly.*

2nd Semester.

Theory of Electricity, Dr. Buckingham.
Theory of Light, Mr. Mackenzie. } *Five times weekly.*

Laboratory work. *Five hours weekly.*

The course is given entirely by lectures; the text-books mentioned below indicate the character of the ground covered, and form the basis of the lectures. An endeavor is made to bring the students into contact with the work of original investigators.

Heat (Maxwell, *Theory of Heat*). Dynamics (Selections from Tait & Steele's *Dynamics of a Particle*, and special lectures dealing with the application of dynamics to physical problems). Electricity and Magnetism (Emtage, *Electricity and Magnetism;* Maxwell, *Elementary Treatise on Electricity*). Optics, Physical and Geometrical (Preston, *Theory of Light;* parts of Heath's *Geometrical Optics*). Sound (Selections from Helmholtz's *Tonempfindungen*)

The laboratory work of the second year is designed to follow upon and illustrate the subject-matter of the lectures. The student is taught the use of accurate instruments and the methods of physical investigation. Special study is made of the sources and amounts of the errors involved in the different operations, and the problems assigned are adapted as far as possible to the requirements and wishes of the individual students.

SECOND YEAR—SPECIAL COURSE. ***Special Courses.***

1st Semester.

The theory of solutions and allied subjects, introduced by a preparatory course in the theory of heat, Dr. Buckingham. *Three times weekly.*

Physical Acoustics, based on Helmholtz's *Tonempfindungen*, introduced by a preparatory treatment of wave motion, Mr. Mackenzie. *Twice weekly.*

2nd Semester.

The theory of Electrolysis, introduced by a preparatory course in the theory of electricity, Dr. Buckingham. *Twice weekly.*

Spectrum Analysis and Polarization, introduced by preparatory course in the theory of light, Mr. Mackenzie. *Three times weekly.*

This course may be taken instead of the second year of the major course by students whose group is either physics with chemistry or physics with biology. In special cases parts of it may be taken as post-major work by those who have already had the regular minor and major work. In general no text-books will be used, but in the lectures on the theory of solutions and the theory of

electrolysis frequent references will be made to Ostwald's *Allgemeine Chemie*. In the course on Acoustics the chief reference book will be Ellis' translation of Helmholtz's *Tonempfindungen*.

Group: Physics with Mathematics; *or* Physics with Chemistry; *or* Physics with Biology; *or* Physics with Philosophy.

Graduate Courses.

GRADUATE COURSES.

The laboratory work will be arranged to bring the student into contact with the methods of research, and for that purpose she will begin by repeating methods and investigations of well-known experimenters, with any modifications that may be suggested; then pass on to points of investigation left untouched by previous experimenters, and finally to the study of new methods and the prosecution of original research. Students taking physics as their chief subject for the degree of Doctor of Philosophy will be expected to spend all the time possible at work in the laboratory. The new laboratory is provided with special rooms for magnetic, optical, and electrical work, and in the basement is a constant-temperature vault designed for accurate comparison of lengths, etc. The stock of apparatus is being added to yearly.

The following graduate courses are offered:

Theory of Electricity and Magnetism, Mr. Mackenzie.

Twice weekly throughout the year.

This course will be given by lectures, supplemented on the part of the students by the reading of assigned articles, and will be based on Maxwell's standard treatise. Special attention will be given to the electro-magnetic theory of light and its late developments. Students wishing to take this course must satisfy the lecturer that they have a sufficient knowledge of mathematics to follow the course with advantage. Students will also be expected to read papers on assigned topics in the seminary meetings, and to make reports on articles appearing in current physical journals.

2nd Semester.

Theory of Wave Motion, Mr. Mackenzie. *Three times weekly.*

The work in this course will begin with a discussion of Fourier's Theorem with application to waves in heat conduction and electric cables. Afterwards attention will be given to reflection and refraction of waves in light and to similar problems.

A course on dynamics, introductory to this, is given by Mr. Harkness twice weekly during the first semester.

For the year 1894–95 the following graduate courses are offered:

Physical Optics, Mr. Mackenzie. *Three times weekly throughout the year.*

Thermodynamics, Dr. Buckingham. *Twice weekly throughout the year.*

This course will treat mainly of the newer applications of Thermodynamics, especially the work of Willard Gibbs, Helmholtz, and van't Hoff. References will be made to Duhem's *Le potential thermodynamique et ses applications* (Hermann, 1886, Paris).

Electricity and Magnetism, Mr. Mackenzie.

Three times weekly throughout the year.

This course will begin with a rapid review of the ground covered in the lectures on the same subject during the major year; then the students will be introduced to the more complete discussion of the subject, with frequent references to Mascart et Joubert, Maxwell, etc., but the course will be given wholly by lectures.

Chemistry.

The instruction in chemistry is under the direction of Dr. Edward H. Keiser, Professor of Chemistry, and Dr. Elmer P. Kohler, Associate in Chemistry.

The courses in chemistry consist of five hours of lectures, or their equivalent, and five and one-half hours of laboratory work a week throughout each year. The first year's work, or Minor Course, forms a general introduction to chemical science. In the second year, or Major Course, a more detailed study is made of both organic and inorganic chemistry.

First Year.
(Minor Course.)

Major Course.

1st Semester.

Introduction to General Chemistry (Lectures), Dr. Keiser. *Three times weekly.*
Reviews, Dr. Kohler. *Twice weekly.*
Laboratory work. *Five and one-half hours weekly.*

The lectures of the first semester are a general introduction to chemistry. The more important properties of the elements and their compounds are considered, and a thorough study is made of the facts upon which the general laws of chemical action are based. The lectures are illustrated by a series of experiments.

The laboratory is open for first year students five and one-half hours weekly. The laboratory work begins with a series of exercises in manipulation, and in the more frequently occurring chemical operations. The students are taught the use of accurate measuring and weighing apparatus, and are made familiar with the calculations employed in quantitative work. Analysis is taught only incidentally, and not as the chief object of the science. While studying the more important properties of the elements and their compounds, considerable attention is devoted to a study of the quantitative relations of the substances with which the students work.

2nd Semester.

General Chemistry (Lectures), Dr. Keiser. *Three times weekly.*
Reviews, Dr. Kohler. *Twice weekly.*
Laboratory work. *Five and one-half hours weekly.*

The lectures and exercises during the second semester are a continuation of the work of the first semester. A thorough study is made of the characters of chemical substances, and the principles of classification are explained. The laboratory work consists of a systematic study of the properties and behavior of the more important elements and compounds, and of a repetition of the more instructive experiments that have been previously performed in the lecture room.

Second Year.
(Major Course.)

1st Semester.

Lectures on Organic Chemistry, Dr. Keiser. *Twice weekly.*
Lectures on Theoretical Chemistry, Dr. Kohler. *Once weekly.*

Lectures on Inorganic Chemistry, Dr. Kohler. *Twice weekly.*

Laboratory work. *Five and one-half hours weekly.*

In the lectures on organic chemistry typical compounds are studied in detail; the general relations existing between classes of compounds, as well as the methods of transforming one class into another, are discussed. In these lectures the experimental processes and the reasoning employed in determining constitutional or structural formulas are considered, and an effort is made to trace out the influence which organic investigations have had in developing the general theories of the science, and in enlarging our conceptions of the ultimate constitution of matter. The lectures on inorganic chemistry consist of a detailed description of the properties of the elements and compounds, and include a discussion of analytical processes and methods.

The laboratory work is upon the subjects considered in the lectures; great care is taken to avoid a mere mechanical use of analytical tables, the student being encouraged to devise analytical methods without aid, using only the knowledge that she actually possesses.

2nd Semester.

Lectures on Organic Chemistry, Dr. Keiser. *Twice weekly.*

Lectures on Inorganic Chemistry and Qualitative and Quantitative Analysis, Dr. Kohler. *Three times weekly.*

Laboratory work. *Five and one-half hours weekly.*

The laboratory work is continued as in the first semester, a large portion of the course being devoted to analytical chemistry and inorganic preparations. Throughout the semester, typical carbon compounds are prepared and studied in the laboratory.

Group: Chemistry with Biology; *or* Chemistry with Physics.

Graduate Courses.

GRADUATE COURSES.

Advanced Organic Chemistry, Dr. Keiser. *Once weekly throughout the year.*

Physical Chemistry, Dr. Kohler. *Once weekly through a portion of the year.*

Journal Meeting, Drs. Keiser and Kohler. *Once weekly throughout the year.*

This class meets to hear reports and hold discussions on scientific articles as they are published.

The courses for graduate students are varied from year to year, so as to form a consecutive course for students that wish to make chemistry the chief subject of examination for the degree of Doctor of Philosophy.

Biology.

The instruction in biology is under the direction of Dr. Thomas Hunt Morgan, Associate Professor of Biology, Dr. Joseph W. Warren, Associate Professor of Physiology, and Dr. Harriet Randolph, Demonstrator in Biology and Reader in Botany.

The undergraduate course in biology may extend through one, two, or three years, and each year's work is equivalent to five hours of lectures or other class exercises and five and one-half hours' laboratory practice a week throughout each year. The

work of the first year (minor course) forms a general introduction to the subject through a broad, comparative study of living things (general biology). In the second year (major course) the foundation of a special knowledge of animal morphology and physiology is laid. The third year's work (post-major), is devoted to advanced courses in special topics, to the study of current biological literature, and to the practical investigation of special problems. A knowledge of the elements of chemistry and physics is very desirable for students entering any course in biology.

Major Course.

FIRST YEAR.

(*Minor Course.*)

1*st Semester.*

Lectures on General Biology, Dr. Morgan. *Five times weekly.*

Laboratory work. *Five and one-half hours weekly.*

2*nd Semester.*

Botany, Dr. Randolph. *Five times weekly till March.*

Lectures on Vertebrates, Dr. Warren. *Five times weekly till May.*

Lectures on the Embryology of the Chick, Dr. Morgan. *Five times weekly throughout May.*

Laboratory work. *Five and one-half hours weekly.*

It is the object of this course to give the student clear conceptions of the fundamental principles of vital structure and action, the outlines of general classification, and the relations of the biological sciences to one another, and to other branches of science. The laboratory practice is designed to enable the student, as far as possible, to examine for herself the facts discussed in the lectures, to encourage the habit of exact observation, and to impart a knowledge of methods of practical work.

The general subject is treated in two courses which supplement each other and must be taken together. The course in the first semester deals especially with the lower forms of life, the relations of plants and animals, and the more general principles of the science. The course in the second semester is devoted more largely to the higher forms of animal life, with especial reference to physiology.

The work is designed not simply to teach the elements of zoölogy and botany, as commonly understood, but beyond this to consider plants and animals with constant reference to one another, both in their structure and in their mode of action. Stress is therefore laid on the essential facts of comparative morphology and physiology (General Biology) as illustrated by the thorough study of a few types, rather than on the minutiæ of classification. At the same time, the work is arranged with reference to subsequent special work in zoölogy, botany and physiology.

In the first semester the student examines a number of animals and plants, so arranged as to form a natural and progressive introduction to the general principles of biology. After certain general preliminary studies on familiar and highly organised forms, the student makes a detailed examination of unicellular organisms, and from them proceeds gradually to the complex conditions of structure and function found in higher plants and animals. In the second semester attention is given mainly to the biology of the higher animals. The course ends with a thorough study of the embryology of the chick.

SECOND YEAR.

(*Major Course.*)

1*st Semester.*

Animal Physiology and Histology, Dr. Warren. *Five times weekly.*

Laboratory work. *Five and one-half hours weekly.*

A knowledge of scientific physiology is here conveyed by a detailed account of the microscopic structure and the mode of working of the higher animal organisms. The application of this knowledge to hygiene, medicine, and psychology is indicated.

The chief organs and tissues of the vertebrate body are examined with the microscope, and much practice in the preparation of histological specimens is obtained. The laboratory is equipped with a stock of physiological apparatus, and the fundamental facts of physiology and the methods of physiological inquiry are learned by means of demonstrations and experiments by the students.

2*nd Semester.*

General Zoölogy, Dr Morgan and Dr. Warren.

Five times weekly till Easter, and three times weekly after Easter.

Laboratory work. *Five and one-half hours weekly.*

The course in general zoölogy extends the work of the first year so as to include a comprehensive survey of the phenomena of animal life, and comprises a systematic presentation of the more important facts of general morphology, with especial reference to the relationships and classification of animals. The course in vertebrate zoölogy treated from the point of view of comparative anatomy is devoted to the morphology of vertebrates, and is designed to serve as a study of vertebrate homologies. In the laboratory thorough dissections are made of typical forms, illustrating the leading groups of animals, and sufficient work is required in systematic zoölogy to teach the student how to name and classify animals, and to learn the relations between species, genera, and the higher groups. Students looking forward to the study of medicine are recommended to devote especial attention to the anatomy of higher vertebrates and to human and comparative osteology; and for such students an alternative course in osteology is offered.

Theoretical Biology, Dr. Morgan. *Twice weekly after Easter.*

In this course the student is introduced to some of the leading questions of theoretical general biology. The first part of the course is devoted to the history of biological discovery, with especial reference to the development of the more important generalisations and theories of the science. The latter part is mainly occupied with a critical analysis of the theory of evolution and with discussions of the broader philosophical problems of biology, such as heredity, variation, adaptation, animal metamorphoses and kindred topics. These lectures vary somewhat from year to year, and are intended to be suggestive rather than exhaustive in character.

Group: Biology with Chemistry; *or* Biology with Physics.

Post-Major Courses.

POST MAJOR COURSES.

To students that have completed the first and second years of biology, post-major courses are offered as follows:—

Embryology, Dr. Morgan. *Once weekly throughout the year.*

A course of lectures on the embyrology of the vertebrates. The more important embryological problems will be discussed in connection with these lectures. An attempt will be made to present such fundamental questions as gastrulation, acquisition and loss of food-yolk, concrescence, etc., and the evidence given by the ontogony of vertebrates towards the solution of phylogenetic problems will be examined.

General Zoölogy, Dr. Morgan. *Once weekly throughout the year.*

A course of lectures or recitations accompanied by demonstrations and laboratory work. The course is intended to cover the ground of such text-books as Hatschek's *Lehrbuch*, or Lang's *Vergleichende Anatomie*. In connection with the work a few of the important monographs of the large groups will be studied.

Advanced Physiology, Dr. Warren. *Once weekly throughout the year.*

The topics to be selected will depend upon the previous training of the students, and as far as possible the preferences of the student will be consulted. Occasional conferences will be held for the discussion of essays prepared by the students and presenting the more important evidence concerning the fundamental problems of physiology. By this means it is hoped to familiarise the student with the literature and with the methods of investigation.

Lectures and Recitations on the Structure and Functions of the Central Nervous System, Dr. Warren. *Once weekly throughout the year.*

Laboratory work.

It is desirable that as much laboratory work as possible should be done in connection with the courses offered above. Some special problem, moreover, will be assigned to each student. At the end of the year the results of the work will be presented in writing.

GRADUATE COURSES.

Graduate Courses.

The advanced courses will be varied from year to year, so as to form a consecutive course for students that wish to make biology one of the chief subjects of the examination for the degree of Doctor of Philosophy. Such students may specialise either in animal morphology under the guidance of Dr. Morgan, or in animal physiology under the guidance of Dr. Warren.

Advanced Biology, Dr. Morgan. *Once fortnightly throughout the year.*

A Course of advanced lectures on: *a.* Theories of Metamerism; *b.* Ancestry of the Chordata.

Physiological Optics, Dr Warren. *Once weekly throughout the year.*

The Use of the Graphic Method in Physiology, Dr. Warren. *Once weekly throughout the year.*

Journal Club.

The advanced students will meet once fortnightly for the presentation and discussion of current biological literature.

Seminary.

The graduate students meet once fortnightly for the formal presentation of topics assigned them.

Physical Culture.

The health of the students is under the care of Miss McNair, Director of the Gymnasium, and Dr. Ida Richardson, a physician practicing in Philadelphia, who visits the college every week, and can then be consulted by all the students free of charge.

The gymnasium (see page 99) is open for the use of students from 9 A.M. to 10 P.M. daily. Before admission to the gymnasium each student must be examined by the Director with reference to physical development, strength of heart and lungs, and hereditary tendencies. The exercises prescribed will be strictly individual, varying according to the physical development of the student; their effect will be tested by half-yearly examinations, and great pains will be taken to prevent any over-exertion.

Opportunities for Public Worship.

It was the desire of the Founder that the College should be pervaded by those principles of Christianity which he as a member of the Society of Friends believed to be the same in substance as those taught by the early Christians, and an endeavor will be made to promote this end.

In the vicinity of the College there are churches of various denominations. Conveyances are supplied to enable students to attend the more distant places of worship. There will be daily morning worship in the college.

COLLEGE BUILDINGS.

The college buildings are situated ten miles west of Philadelphia, on the Pennsylvania Railroad, a quarter of a mile from the Bryn Mawr Station; the neighboring country is agreeable and very healthful, and towards the west there is a fine prospect of hills. The College grounds cover fifty acres, and include lawns and tennis courts; they are surrounded by private villas.

Taylor Hall (named after the founder), a large building of Port Deposit stone, contains the library, lecture-rooms, seminary and reading-rooms for graduate students and the offices of administration.

In January, 1893, the scientific departments of the College were transferred to Dalton Hall, a large building erected by the Trustees out of funds in large part contributed by the generosity of friends of the College. Dalton Hall is entirely occupied by the scientific departments, the special scientific libraries and the private rooms of the professors of science. The first floor and the basement are reserved for Physics, the second

floor is reserved for Biology, and the third floor for Chemistry. The fourth floor contains research-rooms for advanced students and a museum. In December, 1893, a greenhouse designed for the use of the botanical department was added to Dalton Hall as the gift of the Alumnæ and Students.

Around Taylor Hall the Trustees have erected halls of residence for the accommodation of students. Plans and descriptions of the four halls of residence, Merion Hall, Radnor Hall, Denbigh Hall, and Pembroke Hall, and plans of the academic buildings, Taylor Hall, and Dalton Hall are annexed to the present Program.

The Gymnasium is one of the most commodious yet provided for women. It contains a large hall for gymnastic exercises, with a running or walking track for use in rainy weather; a room for the Director, to which is attached another for the examination and record of the physical development of the students, and bathrooms for use after exercise. It is open to the students at all times. This gymnasium has been built in accordance with the system of Dr. Sargent; it is furnished with his complete apparatus, and is under the charge of a Director who has completed his course of instruction.

There is on the grounds, separated from the other buildings, a Cottage Infirmary or Hospital with accommodation for patients and nurses, and its own kitchen and bath-rooms.

Near the college is a Telegraph Office, Adams' Express Office, and United States Money Order Office. There are good roads in every direction. Riding horses and phaetons may be kept in a livery stable near the College, at a cost of twenty-five dollars a month.

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